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UNITED STATES DEPARTMENT OF AGRICULTURE



BULLETIN No. 755

Contribution from the Bureau of Crop Estimates
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Washington, D. C.



March 19, 1919

GEOGRAPHICAL PHASES OF FARM PRICES: OATS.

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INTRODUCTION.

The price a farmer gets for his products varies greatly according to the section of the country in which he is situated. For some crops—the staples even—twice as high a price level frequently prevails in one part of the United States as in another.

The charting of geographic variations in farm or producers' prices has possibilities of practical usefulness. General price levels of most agricultural products fluctuate constantly, of course; but as between two sections the difference in the farmers' price of a product remains approximately the same. This price advantage or disadvantage differs with each product, so that a region of high prices for one may have low prices for another.

In this bulletin a survey is made of the sectional differences throughout the United States in the producers' prices of oats. Some consideration is also given to the influence of producing areas, trade routes and consuming centers upon such variations, and to local factors which qualify price advantage—factors such as relative yields in bushels to the acre and costs of production.

PRICE MAPS.

Sectional differences in the farmers' price of oats have been charted on Maps 1 and 2. In Map 1 a price unit of 10 cents has been used to show tendencies due to broad general influences, as distinct from the minor variations due to local factors. Minor variations are shown in Map 2, which is more detailed.

The farm prices of oats, by counties, which form the base of these maps—averages by counties for the five years, 1910–1914—are given in the Appendix; also a further explanation of data and methods.

SURVEY OF REGIONAL DIFFERENCES IN FARM PRICES OF OATS.

Lowest prices paid for oats to farmers are along the northern boundary of the United States, from Ohio westward. The minimum price (Map 2) is seen in adjoining parts of North Dakota and Minnesota, in the north-central part of the country. From this zone the price levels of oats graduate upward in the various directions. Eastward through the grain belt, as far as Ohio, prices rise slowly, but through the Atlantic States a more rapid rise takes place; the increases are gradual westward also, toward the Pacific coast. It is in the South that the higher prices are most noteworthy. Highest prices are paid to growers of oats in the southeast—in Florida, Georgia, and South Carolina—where the prices are more than twice as high as in the zone of minimum price.

PRICE LEVELS AND TRADE ROUTES.

Map 3 shows the relative importance of different parts of the United States in the production of oats, according to the census for the year 1909.

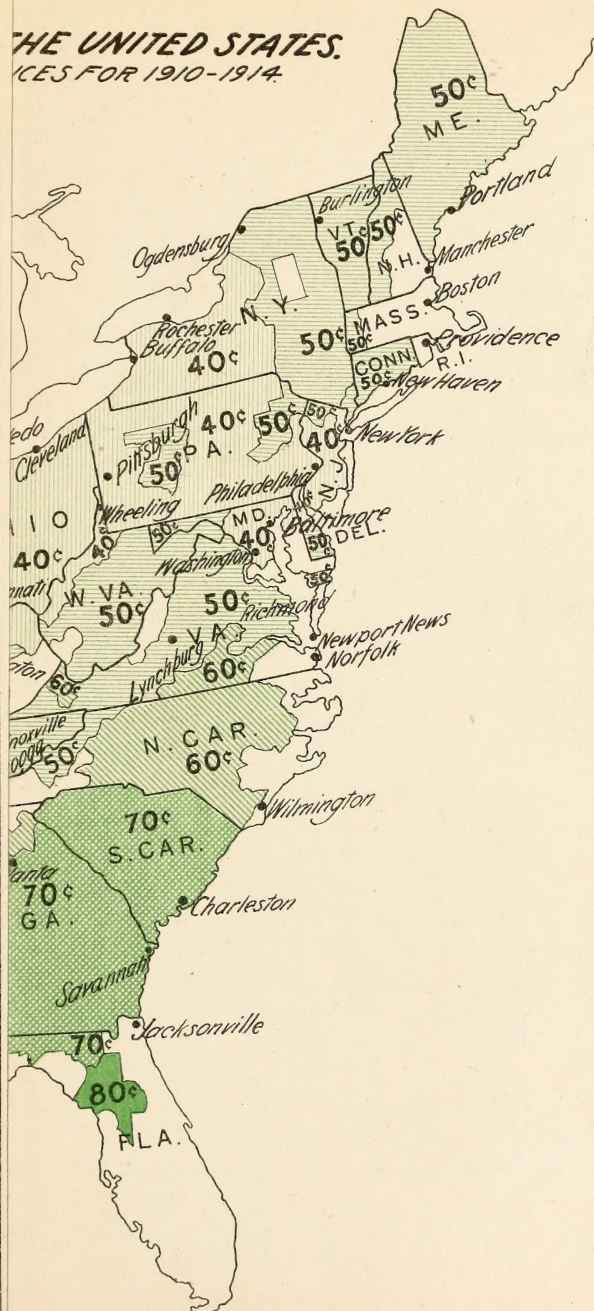
Although oats are a northern crop, their production within the United States is more general than that of any of the other cereals, because they can be grown on a variety of soils, because they fit readily into crop rotations, and because the practice of fall sowing in the South has made it possible to grow oats with good returns in that section. But the great bulk of the crop is produced in the sections of lowest price.

It will be observed that the zones of low price coincide with areas of dense and surplus production. A price divide appears between sections which ship to the East and South and those which ship to the West and South. The line of demarcation is indicated, roughly, by the territory of minimum price, which is remotely situated with regard to the markets in either direction.

Prices paid to producers of oats attain higher levels toward all points of the compass, rising steadily, as a rule, with distance from this region of lowest price. Emerging from the sections of large

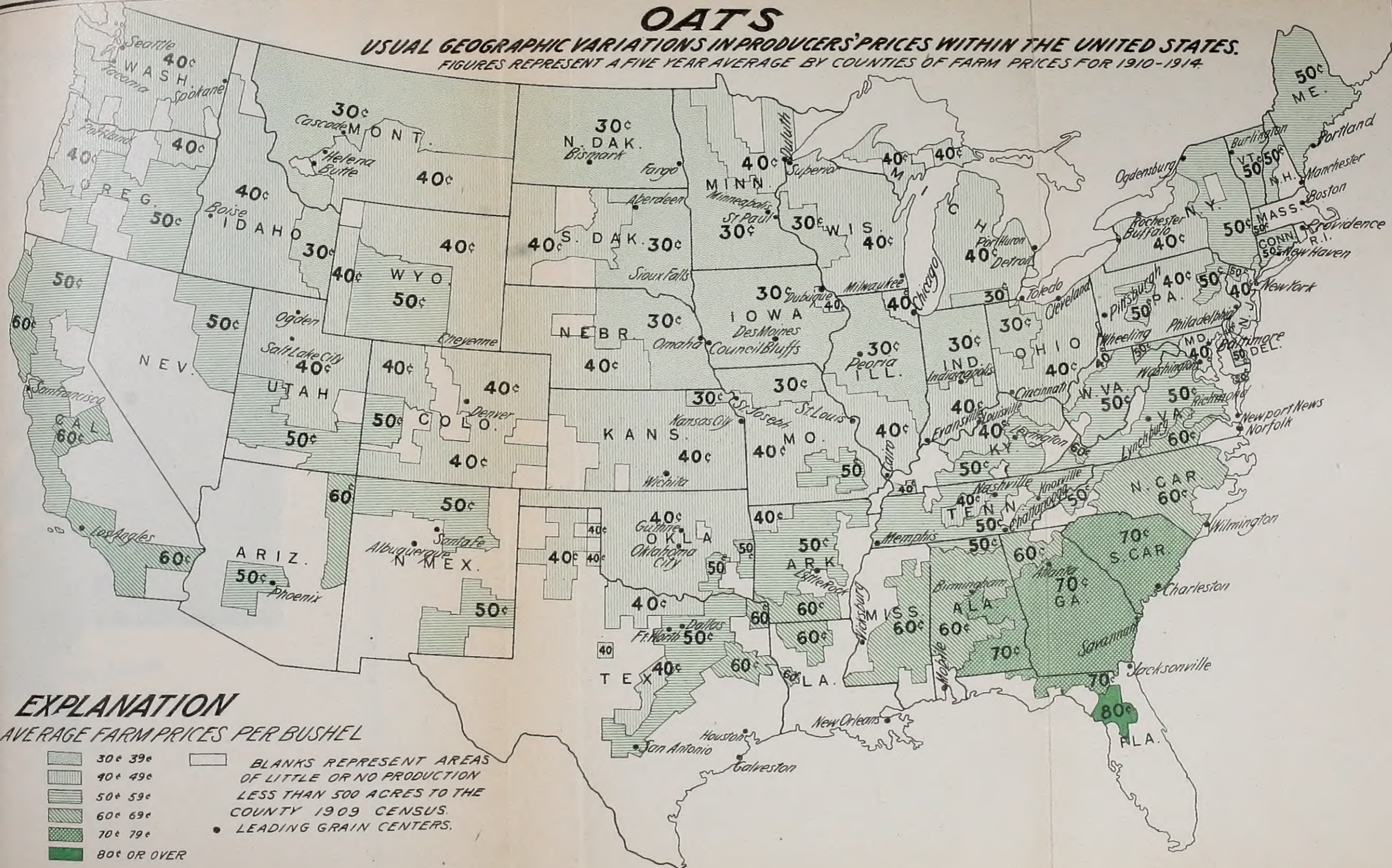
THE UNITED STATES.

ICES FOR 1910-1914.



OATS

USUAL GEOGRAPHIC VARIATIONS IN PRODUCERS' PRICES WITHIN THE UNITED STATES.
FIGURES REPRESENT A FIVE YEAR AVERAGE BY COUNTIES OF FARM PRICES FOR 1910-1914.



EXPLANATION

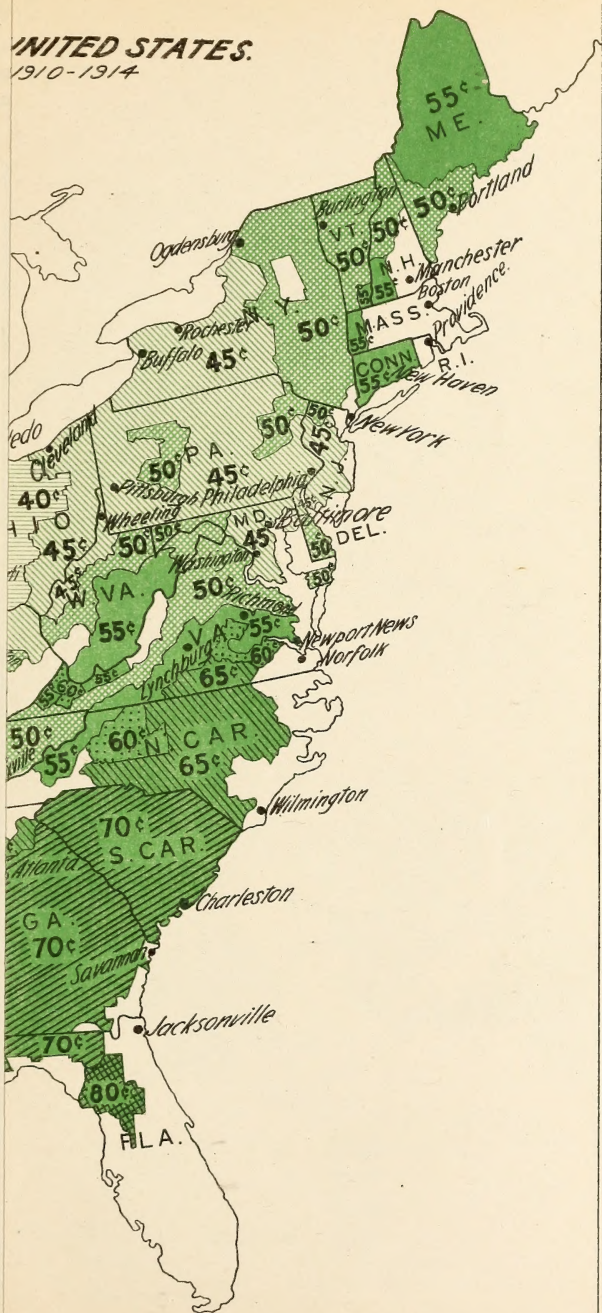
AVERAGE FARM PRICES PER BUSHEL

- 30¢-39¢
- 40¢-49¢
- 50¢-59¢
- 60¢-69¢
- 70¢-79¢
- 80¢ OR OVER

BLANKS REPRESENT AREAS OF LITTLE OR NO PRODUCTION LESS THAN 500 ACRES TO THE COUNTY 1909 CENSUS.
• LEADING GRAIN CENTERS.

UNITED STATES.

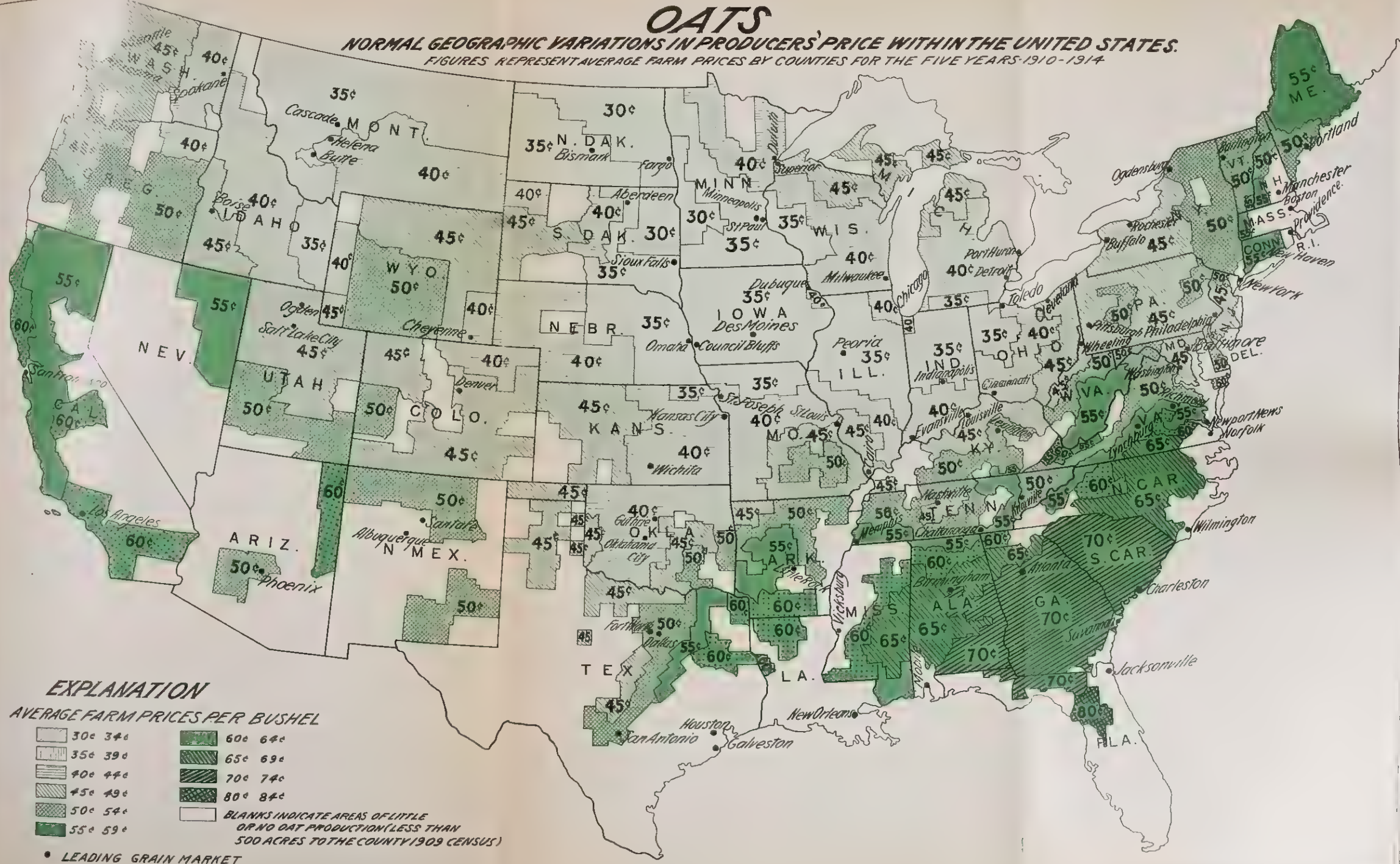
1910-1914



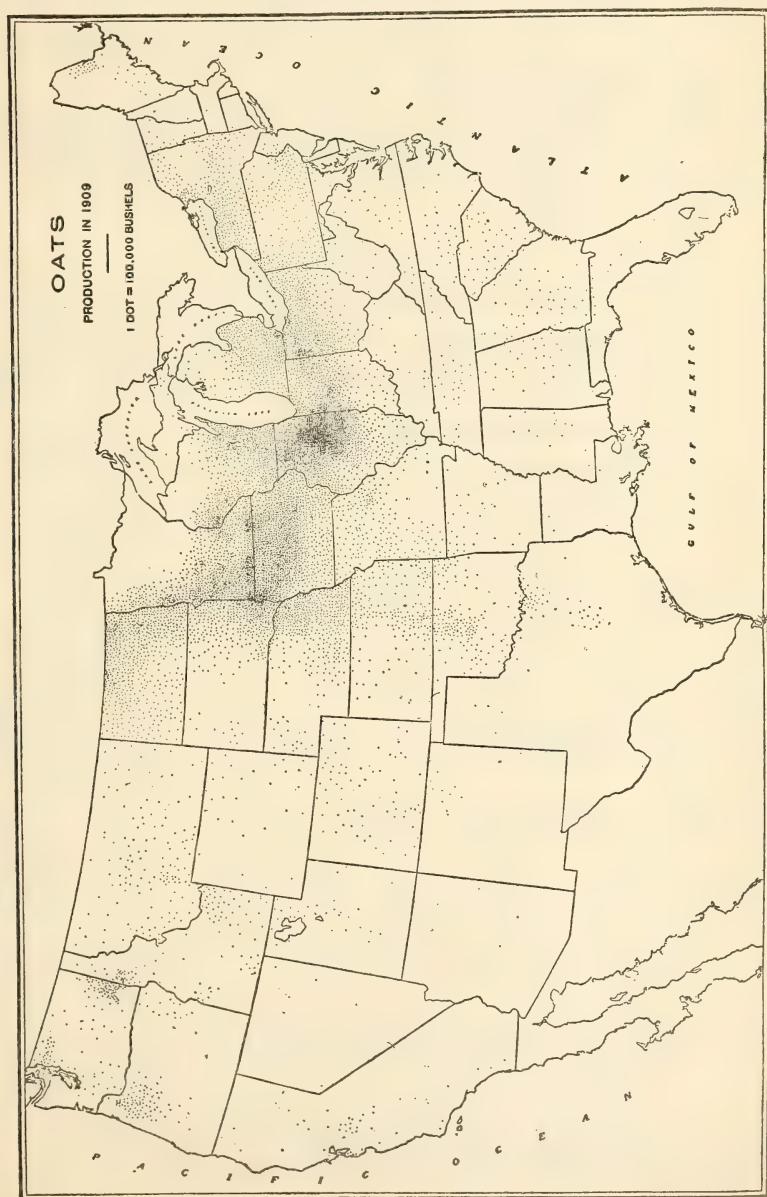
OATS

NORMAL GEOGRAPHIC VARIATIONS IN PRODUCERS' PRICE WITHIN THE UNITED STATES.

FIGURES REPRESENT AVERAGE FARM PRICES BY COUNTIES FOR THE FIVE YEARS 1910-1914



production, the upward movement in the price levels becomes more pronounced. In deficiency regions near the main channels of trade, price increases are small. Highest prices are paid to producers in the southeastern cotton States—areas of insufficient oat production which are farthest removed from the surplus-producing sections.



MAP 3.

Compared to such products as corn or vegetables, gradual elevation in the price levels of oats is a distinguishing characteristic, as well as comparative regularity in the upward slope of prices from the region of minimum price. In the commerce in oats, a weight per bushel nearly half that of wheat or corn lowers the freight charges. Moreover, the rate per 100 pounds is sometimes less than for wheat, consequently oats move at nearly half the expense of other cereals, and the greater the distance the more marked does this difference in costs of transportation become.

The trend of the price levels is evidently closely related to such influences as the location of areas of surplus and deficient production, the local uses of oats, and to the group of factors which enter into the distributive movement.

DISPOSITION OF UNITED STATES OAT CROP.

The price of oats is dominated by the demand for them as a feed-stuff; as such by far the larger part of the crop is consumed on farms, and second in importance is the consumption by live stock in cities. Imports and exports are normally unimportant, and only a small part of the crop is used for human food and for seed.

A few general phases of the uses and distributive movement of oats are shown in Table 1.

TABLE 1.—*Oats: Approximate distribution of the harvest of the United States.*

[Figures are five-year averages for the years 1911 to 1915. Number of bushels rounded to the nearest million.]

Item.	Per cent.	Bushels.
Production.....	100.0	1,229,000,000
Shipped out of counties where grown ¹	29.0	361,000,000
Remaining in counties where grown ¹	71.0	868,000,000
Farm consumption: ²		
Horses and mules.....	46.4	570,000,000
Milch cows.....	5.0	61,000,000
Other cattle.....	1.8	22,000,000
Swine.....	1.8	22,000,000
Sheep.....	1.8	22,000,000
Poultry.....	2.2	27,000,000
Human beings.....	.9	12,000,000
Seed.....	7.6	94,000,000
Other or doubtful.....	4.5	55,000,000
Total.....	72.0	885,000,000
Not used on farms:		
Exports.....	3.9	48,000,000
Consumed in merchant flour mills.....	4.1	50,000,000
Other urban uses, principally consumption by over 3,000,000 horses in cities, also human food (rolled oats and "breakfast foods").....	20.0	246,000,000
Total.....	28.0	344,000,000

¹ In the census year 1909, total sales of oats from farms constituted 32.7 per cent of the crop. As in the same year shipments out of counties where grown amounted to 25.9 per cent, the difference represents approximately the local sales, amounting to 6.8 per cent of the crop.

² U. S. Department of Agriculture. Farmers' Bulletin 629, p. 8. (1914.)

As less than 4 per cent of the national production was exported in 1911-1915, on an average, it is evident that domestic requirements absorbed nearly the entire crop.

Farm consumption absorbs 72 per cent of the crop. According to the 1909 census only a third of the harvest is sold, the remaining two-thirds never leaving the counties in which it is produced. A small part of the third sold is shipped back to farms for consumption.

Urban markets receive about a third of the national production. This third includes the export oats and the small percentage shipped to farms, but most of it is for urban consumption. In urban consumption the chief item is the requirement for horses. Other items are the quantity which enters merchant flour mills, about 50 million bushels, and the uses for human food in the form of rolled oats and breakfast foods. The latter uses take up the higher grades of oats. The census for 1909 reported 50 million bushels consumed in merchant flour mills, of which 36 million bushels were manufactured "chiefly for human food" and 14 million bushels "chiefly for stock feed." In 1909 the quantity entering custom flour mills was reported to be 13 million bushels.

Uses of oats may be grouped under the four headings: (1) Live stock consumption, (2) seed, (3) human consumption, and (4) export. Many million bushels are required for seed, human consumption, and export, but such uses do not absorb normally more than one-fourth of the crop.

Requirements for live stock, according to an estimate made in 1914, took up approximately three-fourths of the production of the United States, of which more than half a billion bushels, or over 60 per cent of the oats used on farms, were fed to horses and mules. Adding to this figure the quantities fed to animals not on farms, the aggregate consumption by horses and mules was possibly at least one-half of the national production.

LOCAL VARIATION IN USES OF OATS.

There is much variation throughout the country in farm practice as to feeding or selling, in the various uses of oats, and in methods of marketing. Used interchangeably with other crops, consumption in any section depends upon price, local production, and the abundance of other feeds.

Where corn is scarce and high in price, as in the Pacific States, a larger use is made of oats and barley for feeding purposes. In many sections of the West and South, oats are cut for hay. A special investigation for the State of Tennessee¹ showed that about 49 per cent of the crop of the State was fed in the straw and 51 per cent was thrashed.

¹ Monthly Crop Report, March, 1916, p. 21.

PRODUCTION, CONSUMPTION, AND MARKETINGS, BY STATES AND SECTIONS.

An idea of the relation of production to consumption, surplus and deficiency in each State and section, and the direction of the trade currents may be gained from Table 2.

It will be noted that three-fourths of the national oat crops of 1911-1915 were produced within the two divisions comprising the North Central States, which contain but 17 per cent of the total land area. This area embraces the regions of lowest farm price. It is the greatest grain and live-stock producing region, and most of the oats raised is consumed locally. However, the fraction of the crop which moves from this section constitutes the bulk of the commercial crop in the United States.

"Shipments out of counties where grown" in Table 2 may be said as a rule to represent the fraction which enters commercial channels, the rest of the crop remaining for local consumption.

In the census report for the year 1909, the sales of oats from farms were reported as 32.7 per cent of production. In the same year shipments out of counties where grown amounted to 25.9 per cent. The difference, 6.8 per cent of the crop, would appear to constitute the local sales.

Nearly 84 per cent of all the oats entering general trade channels originates within the North Central States. Yet this 84 per cent of the total commercial oats constitutes only a third of the production of this region, the remaining two-thirds being consumed on the farms where grown. The oat crop of the Pacific Northwest, with that of adjacent territory, enters normally into a distinct trade westward, the surplus over domestic needs being exported via the Pacific. If from the total commercial oats the figures for the far Western States be deducted, the concentration of production in the North Central States becomes still more pronounced compared with the rest of the country. The surplus from this north central section evidently supplements deficient production in other regions east of the Rocky Mountains and furnishes the bulk of the export oats. All other sections produce less than requirements, although some small areas therein produce surpluses. Details are given in Table 2.

LOCAL PRICE FACTORS.**THE GENERAL PRICE TREND AND LOCAL VARIATIONS.**

Map 2, showing geographic differences in the farm price of oats, is designed to show local variations in the general price zones. It is based upon the same data as Map 1, except that a 5-cent unit has been used to throw into relief local deviations and minor counter-currents to the general drift of the price movement. The basic figures and an explanation as to methods are given in the appendix (pp. 21-28).

TABLE 2.—*Oats: Production and commercial movement.*

[Five-year average, 1911-1915.]

State and geographic division.	Production.			Shipped out of counties where grown.		
	Quantity.	Per cent of United States production.	Per capita.	Quantity.	Per cent of production of State or division.	Per cent of total shipments.
	<i>Thousand bushels.</i> 1,228,765	100.0	<i>Bushels.</i> 12.6	<i>Thousand bushels.</i> 360,560	29	100.0
United States.....	1,228,765	100.0	12.6	360,560	29	100.0
New England.....	9,789	.8	1.4	149	2	(¹)
Middle Atlantic.....	80,401	6.5	3.9	4,930	6	1.4
South Atlantic.....	32,461	2.6	2.5	1,385	4	.4
East North Central.....	395,331	32.2	20.8	144,601	37	40.1
West North Central.....	527,674	42.9	43.8	157,009	30	43.5
East South Central.....	21,558	1.8	2.5	1,856	9	.5
West South Central.....	60,946	5.0	6.4	15,813	26	4.4
Mountain.....	65,282	5.3	22.2	20,442	31	5.7
Pacific.....	35,323	2.9	7.4	14,375	41	4.0
New England:						
Maine.....	5,452	.4	7.2	112	2	(¹)
New Hampshire.....	441	(¹)	1.0	4	1	(¹)
Vermont.....	3,178	.3	8.8	32	1	(¹)
Massachusetts.....	305	(¹)	.1	1	(¹)	(¹)
Rhode Island.....	58	(¹)	.1	0	0	0
Connecticut.....	355	(¹)	.3	0	0	0
Middle Atlantic:						
New York.....	42,500	3.4	4.4	2,331	5	.6
New Jersey.....	2,024	.2	.7	216	11	.1
Pennsylvania.....	35,877	2.9	4.4	2,383	7	.7
South Atlantic:						
Delaware.....	121	(¹)	.6	12	10	(¹)
Maryland.....	1,309	.1	1.0	167	13	.1
Virginia.....	4,108	.3	1.9	295	7	.1
West Virginia.....	2,774	.2	2.1	60	2	(¹)
North Carolina.....	4,864	.4	2.1	97	2	(¹)
South Carolina.....	7,988	.7	5.1	296	4	.1
Georgia.....	10,429	.8	3.8	439	4	.1
Florida.....	868	.1	1.1	19	2	(¹)
East North Central:						
Ohio.....	64,308	5.2	13.0	21,668	34	6.0
Indiana.....	54,731	4.5	19.8	23,501	43	6.6
Illinois.....	145,962	11.9	24.7	72,156	49	20.0
Michigan.....	50,948	4.1	17.3	12,411	24	3.4
Wisconsin.....	79,382	6.5	32.8	14,565	18	4.1
West North Central:						
Minnesota.....	104,457	8.5	47.9	30,449	29	8.4
Iowa.....	175,081	14.2	78.8	77,507	44	21.5
Missouri.....	27,807	2.3	8.3	5,772	14	1.0
North Dakota.....	73,436	6.0	111.1	13,200	18	3.7
South Dakota.....	44,507	3.6	69.2	13,992	31	3.9
Nebraska.....	57,977	4.7	47.0	12,439	21	3.4
Kansas.....	44,409	3.6	25.2	5,650	13	1.6
East South Central:						
Kentucky.....	3,893	.3	1.7	172	4	(¹)
Tennessee.....	6,967	.6	3.1	1,313	19	.4
Alabama.....	7,455	.6	3.3	212	3	.1
Mississippi.....	3,243	.3	1.7	159	5	(¹)
West South Central:						
Louisiana.....	1,429	.1	.8	166	12	(¹)
Texas.....	29,803	2.5	7.1	10,433	35	2.9
Oklahoma.....	23,653	1.9	12.2	4,953	21	1.4
Arkansas.....	6,061	.5	3.7	261	4	.1
Mountain:						
Montana.....	23,103	1.9	55.1	7,243	31	2.0
Wyoming.....	8,179	.7	50.2	1,846	23	.5
Colorado.....	11,587	.9	13.1	3,040	26	.8
New Mexico.....	1,867	.1	5.0	381	20	.1
Arizona.....	298	(¹)	1.3	37	12	(¹)
Utah.....	4,340	.4	10.7	1,103	25	.3
Nevada.....	499	(¹)	5.3	83	17	(¹)
Idaho.....	15,409	1.3	40.7	6,709	44	1.9
Pacific:						
Washington.....	14,035	1.1	10.4	6,409	46	1.8
Oregon.....	14,040	1.2	18.5	4,570	33	1.3
California.....	7,248	.6	2.7	3,396	47	.9
United States.....	1,228,765	100.0	12.6	360,560	29	100.0
Exports (including oatmeal).....	48,291	3.9				
Imports.....	5,353	.4				

¹ Less than one-tenth of 1 per cent.

Examination of Map 2 will disclose an irregular slope in the price levels in a number of instances. A varying rate of increase in the upward trend is also in evidence. The deviations from the general trend are not so frequent or pronounced as in the case of farm products which have comparatively local markets, or where cost of transportation, incident to greater bulk, represents a larger proportion of market values. This lower cost of shipping oats from one section to another tends to regulate and reduce the price differences between the two sections.

Price levels are more irregular and rise more rapidly southward than to the east or west. A number of factors contribute to this condition. On the north, the Canadian surplus is a factor to be reckoned with; other factors in this section are cheaper water transportation via the Great Lakes, availability of other feeds, and the organization of the grain trade.

ISOLATED AREAS.

The existence or absence of adequate transportation facilities has a strong influence on the price zones. An isolated region has practically a local market, influenced little by outside market conditions. The prices in the mountainous areas are out of line with prices in surrounding territory. Illustrations of this are seen in Appalachian Mountain regions and the Ozark section in Missouri.

LOCAL VARIATIONS IN DEMAND.

The elasticity of domestic demand and supply and the availability of substitutes are indicated by the fact that during the years 1911 to 1916 the annual variation in consumption of oats ranged from 20 million to 600 million bushels.

Much variation exists throughout the country in the relation of production to consumption, in farm practice as to feeding or selling, and in the various uses of oats and methods of marketing. Used interchangeably with other crops, consumption in any section depends upon price, local production, and the abundance of other feeds. Thus in the important oat-producing States west of the Mississippi—which are unfavorably situated as to the trade routes owing to distance and higher costs of transportation—a considerably larger proportion of the crop is retained for farm consumption than in the important surplus-producing States east of the Mississippi. The great variation, section by section, in the farm consumption of oats was indicated in Table 2 in the quantities remaining in the counties where grown.

COSTS OF HAULING TO SHIPPING POINTS.

Prices are influenced also by distance from shipping points, condition of wagon roads, and other things affecting wagon transportation.

Table 3 gives cost of hauling as estimated for 1906. Such costs are frequently higher than the costs of long shipments by rail or water.

TABLE 3.—Average cost of hauling oats from farms to shipping points.¹

[Cost refers to expense for round trips.]

State and geographic division.	Number of counties reported.	Average—					From most remote farms to shipping points—				
		Miles to shipping point.	Days for round trip.	Pounds in one load.	Cost per load.	Cost per 100 pounds.	Miles to shipping point.	Days for round trip.	Pounds in one load.	Cost per load.	Cost per 100 pounds.
North Atlantic:											
New York.....	8	7.8	0.6	2,619	\$2.21	\$0.08	25.0	1.5	3,000	\$6.75	\$0.22
Pennsylvania.....	24	7.1	.7	2,875	2.48	.09	20.0	1.0	2,000	2.50	.12
South Atlantic:											
Virginia.....	8	7.5	.7	2,644	2.28	.09	18.0	2.0	2,200	5.00	.23
West Virginia.....	5	10.0	.8	2,410	3.12	.13	20.0	2.0	1,750	6.00	.34
Georgia.....	8	12.7	1.1	1,575	2.62	.17	30.0	2.5	2,000	5.00	.25
North Central:											
Ohio.....	46	6.2	.6	3,120	1.96	.06	30.0	2.0	2,000	8.00	.40
Indiana.....	46	6.6	.6	3,021	1.75	.06	25.0	1.5	3,000	4.50	.15
Illinois.....	58	5.7	.5	2,847	1.47	.05	24.0	1.5	3,500	6.00	.17
Michigan.....	44	7.8	.6	2,710	1.81	.07	30.0	2.0	3,500	6.00	.17
Wisconsin.....	35	8.8	.7	2,588	2.09	.08	30.0	2.0	2,500	6.00	.24
Minnesota.....	44	8.3	.7	2,916	2.25	.08	30.0	2.0	3,000	7.00	.23
Iowa.....	73	6.1	.6	2,354	1.78	.08	16.0	2.0	3,500	7.00	.20
Missouri.....	42	8.6	.8	2,335	2.03	.09	25.0	2.0	2,000	5.00	.25
North Dakota.....	20	10.7	.7	3,738	3.23	.09	35.0	2.0	2,700	6.00	.22
South Dakota.....	32	12.7	.9	2,880	3.23	.11	50.0	2.5	2,500	15.00	.60
Nebraska.....	51	9.1	.7	2,826	2.14	.08	30.0	1.5	2,500	5.25	.21
Kansas.....	30	7.6	.6	2,835	1.69	.06	25.0	2.0	3,000	7.00	.23
South Central:											
Kentucky.....	18	10.5	1.1	2,256	2.99	.13	30.0	3.0	1,250	9.00	.72
Tennessee.....	24	9.8	.8	1,888	1.86	.10	30.0	3.0	1,600	6.00	.38
Alabama.....	2	15.5	1.4	1,500	3.50	.23	25.0	2.0	1,500	4.00	.27
Texas.....	43	13.8	1.1	2,358	3.02	.13	42.5	3.0	2,500	4.50	.18
Indian Territory.....	2	8.8	.6	1,900	1.65	.09	15.0	.5	2,000	1.38	.07
Oklahoma.....	12	12.9	.9	2,354	2.51	.11	45.0	3.0	2,000	7.50	.38
Western:											
Montana.....	17	13.9	1.3	3,076	5.69	.19	35.0	3.5	2,500	10.50	.42
Wyoming.....	7	22.1	1.9	2,829	7.03	.25	55.0	6.5	4,500	22.75	.51
Colorado.....	27	12.5	1.1	3,307	4.50	.14	70.0	7.0	2,500	35.00	1.40
New Mexico.....	4	18.0	1.7	2,212	5.42	.25	37.5	3.0	2,750	10.50	.38
Arizona.....	2	13.8	1.3	4,250	7.15	.27	27.5	2.5	4,500	18.75	.42
Utah.....	10	21.9	2.2	3,665	6.71	.18	100.0	14.0	7,000	35.00	.50
Nevada.....	1	12.0	1.4	6,000	10.50	.18	17.0	2.0	6,000	15.00	.25
Idaho.....	9	13.6	1.1	3,278	4.86	.15	27.5	1.5	2,500	6.75	.27
Washington.....	14	9.8	1.0	2,654	4.00	.15	60.0	7.0	2,000	28.00	1.40
Oregon.....	15	10.3	.9	3,783	3.24	.09	30.0	2.0	4,000	6.00	.15
California.....	17	9.9	.9	6,229	4.31	.07	32.0	3.0	4,000	12.75	.32
Geographic division:											
North Atlantic.....	32	7.5	.6	2,713	2.18	.08	.....	.....	.....	.....	.....
South Atlantic.....	21	9.4	.8	2,318	2.56	.11	.....	.....	.....	.....	.....
North Central.....	521	6.9	.6	2,766	1.82	.07	.....	.....	.....	.....	.....
South Central.....	101	13.0	1.0	2,289	2.74	.12	.....	.....	.....	.....	.....
Western.....	123	11.5	1.1	3,683	4.55	.12	.....	.....	.....	.....	.....
States represented.....	798	7.3	.6	2,772	1.82	.07	.....	.....	.....	.....	.....

¹ From "Costs of hauling crops from farms to shipping points," by Frank Andrews. Bul. 49, Bureau of Statistics, U. S. Dept. Agr.

URBAN MARKETS.

A large part of the commercial oat crop is first concentrated in a few large primary markets, most of which are located in the region of large production. Each market has a tributary territory, and farm prices in the sections shipping to each market tend to differ in proportion to costs of transportation. As this grain business is on a highly competitive basis, the price levels in surrounding sections (see price levels in North Central States) are comparatively even.

RECEIPTS, SHIPMENTS, AND CONSUMPTION OF CHIEF MARKETS.

In Table 4 are assembled data as to receipts, shipments, and apparent consumption in the most important grain centers. Allowing for duplication in reports of receipts, the degree of concentration in a few primary markets in the North Central States is manifest in comparing the total of receipts with the "shipments out of counties where grown" (Table 2).

While the great markets such as Chicago, St. Louis, and New York consume large quantities of oats, they are also points for concentration and reshipment.

TABLE 4.—*Oats: Receipts and shipments in leading markets.*

[Figures are five-year averages, 1911 to 1915, unless otherwise noted.]

Market.	Receipts.	Shipments.	Excess, receipts over shipments.
EAST OF THE ROCKY MOUNTAINS.			
Primary markets:	<i>Bushels.</i>	<i>Bushels.</i>	<i>Bushels.</i>
Chicago.....	121,774,000	104,622,000	17,152,000
St. Louis.....	22,117,000	15,409,000	6,708,000
Minneapolis.....	21,513,000	20,218,000	1,295,000
Milwaukee.....	19,620,000	18,125,000	1,495,000
Omaha.....	13,266,000	13,599,000	.....
Peoria.....	10,391,000	11,717,000	.....
Kansas City.....	7,719,000	6,203,000	1,516,000
Cleveland.....	7,419,000	1,606,000	5,813,000
Cincinnati.....	7,188,000	5,076,000	2,112,000
Duluth.....	6,592,000	16,626,000	.....
Indianapolis.....	6,242,000	2,405,000	3,837,000
Louisville.....	6,037,000	4,240,000	1,797,000
Toledo.....	4,561,000	3,770,000	791,000
Detroit.....	3,823,000	743,000	3,080,000
Total ²	258,262,000	214,359,000	45,596,000
Other markets:			
Buffalo.....	12,685,000	(³)	(³)
New York.....	27,071,000	<i>Exports.</i>	19,070,000
Baltimore.....	15,726,000	12,310,000	3,416,000
Philadelphia.....	11,143,000	3,567,000	7,576,000
Boston.....	4,539,000	789,000	3,750,000
New Orleans.....	3,089,000	700,000	2,389,000
PACIFIC MARKETS.			
Seattle.....	2,344,000	764,000	1,580,000
San Francisco.....	2,049,000	259,000	1,790,000
Portland, Oreg. ⁴	2,286,000	1,327,000	959,000

¹ In these cases shipments apparently exceed receipts, according to the original reports.

² Allowance should be made for some duplication in receipts due to such causes as intermediate markets crediting themselves with through shipments.

³ No data.

⁴ Data for 1915 only.

PRICE ZONES FLEXIBLE.

In concluding the brief summary of a few of the more general facts concerning regional price differences it appears necessary to direct attention to the changeable character of the price zones. The price differences as charted on Maps 1 and 2 represent the usual conditions as established by averages for the five years 1910 to 1914. These averages, which are based upon average prices for individual counties, indicate price zones which are fairly definite, but whose boundaries and price averages are subject to change. Unusual harvest or market conditions may change the price in one section as compared with another. Especially is this true for comparatively isolated sections, which are somewhat out of line with general trade currents. However, a comparison of the prices of many hundreds of counties during 1910-1914 shows that in individual years the price zones were substantially the same as those based upon the average prices of the five years.

SECTIONAL PRICE RATIOS CHANGING WITH ECONOMIC TRANSFORMATIONS.

The differences in price between one region and another, as indicated by the five-year averages in Table 5, reflect economic conditions that are changing; and the character of these changes in economic conditions since 1871-1875 are to a considerable extent indicated by the varying difference in price in one section as compared with another.

Transportation costs have declined greatly; other distributive expenses have dropped also; areas which formerly produced sufficient quantities for local needs must now bring in supplies. Sectional price differences have narrowed notably. The farmers' price of oats has become lower in areas of insufficient production, coincident with cheaper transportation from regions of surplus; on the other hand, prices have increased in areas of surplus production.

RETROSPECTIVE VIEW, 1871 TO 1915.

CHANGES IN REGIONAL PRICE DIFFERENCES.

In Table 5 the regional differences in the price of oats during the period 1871 to 1915 can be observed. The center of oat production has shifted to the west and north. The minimum farm price of oats has followed in the same direction. In the period 1871-1875 the lowest farm price appeared in Iowa, in 1882-1886 in Nebraska, and in 1911-1915 in North Dakota. The farm price in Massachusetts was 34 cents higher than in Iowa in 1871-1875, but only 18 cents higher in 1911-1915. In the surplus-producing North Central States, west of the Mississippi River, prices have increased, absolutely as well as relatively, but in the areas of insufficient production in the Southern and Mountain States prices have declined. Tendencies can best be followed through the percentage based upon the average for the United States at each period taken as 100 per cent. Details follow in Table 5.

TABLE 5.—*Farm prices of oats, 1871 to 1915.*

[A review, by States and sections, of the trend of geographic price differences.]

State and geographic division.	Farm prices per bushel, in 5-year averages.					Measurement of changes in percentages of the United States average as base (100 per cent)				
	1911-1915.	1901-1905.	1891-1895.	1882-1886. ¹	1871-1875. ²	1911-1915.	1901-1905.	1891-1895.	1882-1886. ¹	1871-1875.
	Cents. 39	Cents. 33	Cents. 29	Cents. 31	Cents. 36	P. ct. 100	P. ct. 100	P. ct. 100	P. ct. 100	P. ct. 100
United States.....										
New England.....	53	46	43	46	54	136	139	148	148	150
Middle Atlantic.....	47	40	36	38	44	121	121	124	123	122
South Atlantic.....	59	48	44	48	58	151	145	152	155	161
East North Central.....	39	33	28	30	32	100	100	97	97	89
West North Central.....	36	29	25	25	27	92	88	86	81	75
East South Central.....	57	47	42	47	61	146	142	145	152	169
West South Central.....	50	44	41	50	78	128	133	141	161	217
Mountain.....	47	52	40	53	.....	121	158	138	171	.....
Pacific.....	46	45	37	45	64	118	136	128	145	177
New England:										
Maine.....	52	46	43	45	53	133	139	148	145	147
New Hampshire.....	55	47	43	46	54	141	142	148	148	150
Vermont.....	53	44	42	42	46	136	133	145	135	128
Massachusetts.....	53	47	43	48	57	136	142	148	155	158
Rhode Island.....	52	46	45	48	54	133	139	155	155	150
Connecticut.....	54	45	41	45	57	138	136	141	145	158
Middle Atlantic:										
New York.....	47	40	35	38	43	121	121	121	123	119
New Jersey.....	49	41	37	39	46	126	124	128	126	128
Pennsylvania.....	46	38	35	38	42	118	115	121	123	117
South Atlantic:										
Delaware.....	49	42	36	39	40	126	127	124	126	111
Maryland.....	49	38	35	37	41	126	115	121	119	114
Virginia.....	54	42	36	42	44	138	127	124	135	122
West Virginia.....	52	43	38	38	39	133	130	131	123	108
North Carolina.....	63	51	44	48	58	162	155	152	155	161
South Carolina.....	69	59	54	56	77	177	179	186	181	214
Georgia.....	68	58	52	56	74	174	176	179	181	206
Florida.....	71	54	60	69	90	182	164	207	223	250
East North Central:										
Ohio.....	40	34	30	33	33	103	103	103	106	92
Indiana.....	38	31	29	29	30	97	94	100	94	83
Illinois.....	38	32	26	26	27	97	97	90	84	75
Michigan.....	40	35	31	33	36	103	106	107	106	100
Wisconsin.....	39	32	26	28	32	100	97	90	90	89
West North Central:										
Minnesota.....	34	28	25	26	30	87	85	86	84	83
Iowa.....	35	28	23	24	23	90	85	79	77	64
Missouri.....	41	33	26	27	28	105	100	90	87	78
North Dakota.....	31	28	25	28	.....	79	85	86	90	.....
South Dakota.....	34	28	25	28	.....	87	85	86	90	.....
Nebraska.....	36	28	24	20	25	92	85	83	65	69
Kansas.....	41	33	26	24	27	105	100	90	77	75
East South Central:										
Kentucky.....	49	39	34	35	41	126	118	117	113	114
Tennessee.....	51	41	34	37	41	131	124	117	119	114
Alabama.....	66	56	51	58	76	169	170	176	187	211
Mississippi.....	63	53	48	58	86	162	161	166	187	239
West South Central:										
Louisiana.....	58	49	46	56	98	149	148	159	181	272
Texas.....	48	47	38	47	76	123	142	131	152	211
Oklahoma.....	41	37	.....	.....	.....	105	112	.....	.....	.....
Arkansas.....	52	45	39	47	61	133	136	134	152	169
Mountain:										
Montana.....	36	39	40	53	.....	92	118	138	171	.....
Wyoming.....	44	46	.....	50	.....	113	139	.....	161	.....
Colorado.....	43	46	37	51	.....	110	139	128	165	.....
New Mexico.....	51	61	51	56	.....	131	185	176	181	.....
Arizona.....	63	67	.....	.....	.....	162	203	.....	.....	.....
Utah.....	45	48	36	46	.....	115	145	124	148	.....
Nevada.....	58	65	.....	58	95	149	197	.....	187	264
Idaho.....	36	46	38	54	.....	92	139	131	174	.....
Pacific:										
Washington.....	41	41	34	43	.....	105	124	117	139	.....
Oregon.....	41	42	34	43	53	105	127	117	139	147
California.....	55	51	44	49	74	141	155	152	158	206

¹ 1882-1886 taken instead of 1881-1885 because of availability of statistics for a larger number of states beginning 1882.² Values reduced to gold basis.

TREND OF YIELDS TO THE ACRE.

Yields in bushels to the acre must be taken into consideration as a qualifier of price advantage or disadvantage. The trend of yields, by States and geographic divisions, is shown in Table 6.

Increases in yield are general. It is only in the West North Central States, the western part of the great surplus-producing section, that diminishing yields appear. In this section large areas have been added to the cultivated land between 1875 and 1915, and the average yields of 1915 include areas not included in 1875. The most pronounced increases in yields per acre are seen in the Mountain and Southern States, offsetting declining price advantages in those sections.

TREND OF VALUES TO THE ACRE.

Prices and average yields have been correlated in Table 7 to show average values to the acre. For the period under review, values have increased in nearly all States and sections, but in varying ratios. The most pronounced improvement in this respect is seen in the Southern States. The average for the United States shows an increase, but declines are shown in the States of the industrial East and the far West.

SECTIONAL CHANGES IN PRODUCTION OF OATS.

The changes in the location of the chief oat-producing sections from 1871 to 1915 and the relation of production to population and other factors are indicated in Table 8.

During the period under review, production has increased fivefold. It has been concentrated to an increasing degree in the North Central States, which in 1871-1875 grew 60 per cent of the national crop of oats, and in 1911-1915, 75 per cent. The most marked relative increases during the last decade are shown in the Mountain and Southern States, but in relation to the United States total these sections are still comparatively unimportant. The three States constituting the Middle Atlantic section produced nearly one-fourth the total in 1871-1875, and in 1911-1915 their proportion dropped to about one-fifteenth.

PRICE VS. COST OF PRODUCTION.

Difference in costs of production is an independent factor which modifies sectional differences in producers' prices of oats. Costs are qualified by varying productivity as expressed by yields in bushels to the acre. High yields to the acre may reduce high acre-costs to low bushel-costs, and conversely. In the Southern States, for instance, the favorable combination of highest price and lowest costs to the acre is offset by relatively low yields to the acre; hence these States show the highest costs per bushel of oats and the minimum net returns.

TABLE 6.—Oats: *Trend of yields per acre, 1871-1915.*

[Limitations of soil and climate, reflected in yields per acre, as qualifying price factors.]

State and geographic division.	Yields per acre, in five-year averages.					Comparisons in percentages of the United States average as base.				
	1911-1915	1901-1905	1891-1895	1882-1886 ¹	1871-1875	1911-1915	1901-1905	1891-1895	1882-1886	1871-1875
United States.....	<i>Bush-els.</i> 32	<i>Bush-els.</i> 31	<i>Bush-els.</i> 26	<i>Bush-els.</i> 27	<i>Bush-els.</i> 28	<i>Per cent.</i> 100	<i>Per cent.</i> 100	<i>Per cent.</i> 100	<i>Per cent.</i> 100	<i>Per cent.</i> 100
New England.....	35	34	33	31	32	109	110	127	115	114
Middle Atlantic.....	31	30	28	28	29	97	97	108	104	104
East North Central.....	34	34	29	32	30	106	110	112	119	107
West North Central.....	29	31	26	32	32	91	100	100	119	114
South Atlantic.....	23	18	16	13	15	72	58	62	48	54
East South Central.....	21	18	16	14	17	66	58	62	52	61
West South Central.....	24	23	20	18	22	75	74	78	67	79
Mountain.....	42	35	31	31	-----	131	113	119	115	-----
Pacific.....	41	36	31	30	33	128	116	119	111	118
New England:										
Maine.....	39	38	35	29	26	122	123	135	107	93
New Hampshire.....	37	32	34	34	36	116	103	131	126	129
Vermont.....	40	38	37	35	36	125	123	142	130	129
Massachusetts.....	35	32	34	31	33	109	103	131	115	118
Rhode Island.....	29	30	30	28	32	91	97	115	104	114
Connecticut.....	31	32	28	29	32	97	103	108	107	114
Middle Atlantic:										
New York.....	33	33	27	30	34	103	106	104	111	121
New Jersey.....	29	28	29	27	25	91	90	112	100	89
Pennsylvania.....	32	30	27	28	29	100	97	104	104	104
East North Central:										
Ohio.....	36	36	30	32	28	112	116	115	119	100
Indiana.....	32	31	27	29	25	100	100	104	107	89
Illinois.....	34	32	30	35	30	106	103	115	130	107
Michigan.....	34	34	27	33	31	106	110	104	122	111
Wisconsin.....	35	35	32	31	35	109	113	123	115	125
West North Central:										
Minnesota.....	35	36	32	35	34	109	116	123	130	121
Iowa.....	35	30	32	34	36	109	97	123	126	129
Missouri.....	23	23	24	26	29	72	74	92	96	104
North Dakota.....	32	35	28	34	-----	100	113	108	126	-----
South Dakota.....	27	36	23	-----	-----	84	116	88	-----	-----
Nebraska.....	26	29	22	32	31	81	94	85	119	111
Kansas.....	25	25	23	32	31	78	81	88	119	111
South Atlantic:										
Delaware.....	30	25	21	23	19	94	81	81	85	68
Maryland.....	29	25	21	20	17	91	81	81	74	61
Virginia.....	21	17	14	11	14	66	55	54	41	50
West Virginia.....	25	24	22	18	23	78	77	85	67	82
North Carolina.....	19	14	12	9	13	59	45	46	33	46
South Carolina.....	21	15	12	10	11	66	48	46	37	39
Georgia.....	21	14	13	9	12	66	45	50	33	43
Florida.....	17	13	11	10	12	53	42	42	37	43
East South Central:										
Kentucky.....	22	22	21	19	22	69	71	81	70	79
Tennessee.....	22	19	17	13	17	69	61	65	48	61
Alabama.....	20	15	13	11	13	62	48	50	41	46
Mississippi.....	20	17	13	10	15	62	53	50	37	54
West South Central:										
Arkansas.....	23	19	19	17	23	72	61	73	63	82
Louisiana.....	22	16	15	13	16	69	52	58	48	57
Oklahoma.....	21	30	-----	-----	-----	66	97	-----	-----	-----
Texas.....	31	28	26	24	28	97	90	100	89	100
Mountain:										
Montana.....	46	42	34	36	-----	144	135	131	133	-----
Idaho.....	46	40	33	33	-----	144	129	127	122	-----
Wyoming.....	38	35	31	30	-----	119	113	119	111	-----
Colorado.....	38	33	27	33	-----	119	106	104	122	-----
New Mexico.....	36	24	29	22	-----	112	77	112	81	-----
Arizona.....	42	33	-----	-----	-----	131	106	-----	-----	-----
Utah.....	45	36	30	30	-----	141	116	115	111	-----
Nevada.....	45	36	-----	32	34	141	116	-----	119	121
Pacific:										
Washington.....	49	47	37	38	-----	153	152	142	141	-----
Oregon.....	39	28	28	27	33	122	90	108	100	118
California.....	35	32	29	26	33	109	103	112	96	118

¹See note 1, Table 5.

TABLE 7.—*Oats: Gross returns per acre.*

[A review of the trend of returns per acre of oats, 1871-1915, and measurement of tendencies in absolute and relative figures.]

State and geographic division.	Gross returns per acre in five-year averages.					Comparisons in percentages of the United States average as base (100).				
	1911-1915	1901-1905	1891-1895	1882-1886 ¹	1871-1875	1911-1915	1901-1905	1891-1895	1882-1886	1871-1875
United States	Dolls. 12.48	Dolls. 10.23	Dolls. 7.54	Dolls. 8.37	Dolls. 10.08	P. ct. 100	P. ct. 100	P. ct. 100	P. ct. 100	P. ct. 100
New England.....	18.55	15.64	14.19	14.26	17.28	149	153	188	170	171
Middle Atlantic.....	14.57	12.00	10.08	10.64	12.76	117	117	134	127	127
East North Central.....	13.36	11.22	8.12	9.60	9.60	107	110	108	115	95
West North Central.....	10.44	8.99	6.50	8.00	8.64	84	88	86	96	86
South Atlantic.....	13.57	8.64	7.04	6.24	8.70	109	84	93	75	86
East South Central.....	11.97	8.46	6.72	6.58	10.37	96	83	89	79	103
West South Central.....	12.00	10.12	8.20	9.00	17.16	96	99	109	108	170
Mountain.....	19.74	18.20	12.40	16.43	.....	158	178	164	196	.....
Pacific.....	18.86	16.20	11.47	13.50	21.12	151	158	152	161	210
New England:										
Maine.....	20.28	17.48	15.05	13.05	13.78	162	171	200	156	137
New Hampshire.....	20.35	15.04	14.62	15.64	19.44	163	147	194	187	193
Vermont.....	21.20	16.72	15.54	14.70	16.56	170	163	206	176	164
Massachusetts.....	18.55	15.04	14.62	14.88	18.81	149	147	194	178	187
Rhode Island.....	15.08	13.80	13.50	13.44	17.28	121	135	179	161	171
Connecticut.....	16.74	14.40	11.48	13.05	18.24	134	141	152	156	181
Middle Atlantic:										
New York.....	15.51	13.20	9.45	11.40	14.62	124	129	125	136	145
New Jersey.....	14.21	11.48	10.73	10.53	11.50	114	112	142	126	114
Pennsylvania.....	14.72	11.40	9.45	10.64	12.18	118	111	125	127	121
East North Central:										
Ohio.....	14.40	12.24	9.00	10.56	9.24	115	120	119	126	92
Indiana.....	12.16	9.61	7.83	8.41	7.50	97	94	104	100	74
Illinois.....	12.92	10.24	7.80	9.10	8.10	104	100	103	109	80
Michigan.....	13.60	11.90	8.37	10.89	11.16	109	116	111	130	111
Wisconsin.....	13.65	11.20	8.32	8.68	11.20	109	109	110	104	111
West North Central:										
Minnesota.....	11.90	10.08	8.00	9.10	10.20	95	99	106	109	101
Iowa.....	12.25	8.40	7.36	8.16	8.28	98	82	98	97	82
Missouri.....	9.43	7.59	6.24	7.02	8.12	76	74	83	84	81
North Dakota.....	9.92	9.80	7.00	9.52	.....	79	96	93	114	.....
South Dakota.....	9.18	10.08	5.75	.....	.....	74	99	76	.....	.....
Nebraska.....	9.36	8.12	5.28	6.40	7.75	75	79	70	76	77
Kansas.....	10.25	8.25	5.98	7.68	8.37	82	81	79	92	83
South Atlantic:										
Delaware.....	14.70	10.50	7.56	8.97	7.60	118	103	100	107	75
Maryland.....	14.21	9.50	7.35	7.40	6.97	114	93	97	88	69
Virginia.....	11.34	7.14	5.04	4.62	6.16	91	70	67	55	61
West Virginia.....	13.00	10.32	8.36	6.84	8.97	104	101	111	82	89
North Carolina.....	11.97	7.14	5.28	4.32	7.54	96	70	70	52	75
South Carolina.....	14.49	8.85	6.48	5.60	8.47	116	87	86	67	84
Georgia.....	14.28	8.12	6.76	5.04	8.88	114	79	90	60	88
Florida.....	12.07	7.02	6.60	6.90	10.80	97	69	88	82	107
East South Central:										
Kentucky.....	10.78	8.58	7.14	6.65	9.02	86	84	95	79	89
Tennessee.....	11.22	7.79	5.78	4.81	6.97	90	76	77	57	69
Alabama.....	13.20	8.40	6.63	6.38	9.88	106	82	88	76	98
Mississippi.....	12.60	9.01	6.24	5.80	12.90	101	88	83	69	128
West South Central:										
Arkansas.....	11.96	8.55	7.41	7.99	14.03	96	84	97	95	139
Louisiana.....	12.76	7.84	6.90	7.28	15.68	102	77	92	87	156
Oklahoma.....	8.61	11.10	.....	.....	.....	69	109	.....	.....	.....
Texas.....	14.88	13.16	9.88	11.28	21.28	119	129	131	135	211
Mountain:										
Montana.....	16.56	16.38	13.60	19.08	.....	133	160	180	228	.....
Idaho.....	16.56	18.40	12.54	17.82	.....	133	180	166	213	.....
Wyoming.....	16.72	16.10	.....	15.00	.....	134	157	.....	179	.....
Colorado.....	16.34	15.18	9.99	16.83	.....	131	148	132	201	.....
New Mexico.....	18.36	14.64	14.79	12.32	.....	147	143	196	147	.....
Arizona.....	26.46	22.11	.....	.....	.....	212	216	.....	.....	.....
Utah.....	20.25	17.28	10.80	13.80	.....	162	169	143	165	.....
Nevada.....	26.10	23.40	.....	18.56	32.30	209	229	.....	222	320
Pacific:										
Washington.....	20.09	19.27	12.58	16.34	.....	161	188	167	195	.....
Oregon.....	15.99	11.76	9.52	11.61	17.49	128	115	126	139	174
California.....	19.25	16.32	12.76	12.74	24.42	154	160	169	152	242

¹ See note 1, table 5.

TABLE 8.—Oats: A statistical review, from 1871 to 1915, by States and geographic divisions: Changes in domestic sources of supply, in absolute and relative figures; trend of per capita production; per cent of improved land in oats.

State and geographic division.	Geographic distribution of oat production in five-year averages.				Averages, 1911-1915 as compared with 1901-1905 (100 per cent.).	Average per capita production. ¹				Distribution of oat production, in percentages of United States totals.				Per cent of all improved land occupied by oats. ²		
	1911-1915	1901-1905	1882-1886	1871-1875		1911-1915	1901-1905	1882-1886	1871-1875	1911-1915	1901-1905	1882-1886	1871-1875	1909	1899	1879
	1,000 bu.	1,000 bu.	1,000 bu.	1,000 bu.		Bu.	Bu.	Bu.	Bu.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.	Per cent.
United States.....	1,228,765	871,311	705,049	278,503	141	12.6	10.8	10.5	6.6	100.0	100.0	100.0	100.0	7.3	7.1	5.7
New England.....	9,789	8,309	9,130	8,497	118	1.4	1.4	2.2	2.3	7.0	0.8	0.8	1.0	1.6	3.1	2.1
Middle Atlantic.....	80,401	80,512	80,062	65,497	100	3.9	4.8	5.3	7.0	7.0	6.5	6.5	9.2	10.2	13.8	7.9
South Atlantic.....	32,461	16,813	30,377	17,226	193	20.8	1.5	3.3	3.4	2.7	2.6	2.6	1.9	4.3	6.2	6.2
East North Central.....	395,331	323,137	227,176	109,226	122	20.8	19.4	16.0	17.8	11.2	32.2	32.2	37.1	32.2	39.2	6.6
West North Central.....	527,674	346,003	294,645	191,246	153	43.8	32.2	31.5	26.3	4.1	42.9	42.9	39.7	41.8	33.0	6.3
East South Central.....	21,558	13,375	26,283	12,086	161	2.5	1.7	3.9	4.1	2.5	1.8	1.8	1.5	3.2	4.2	4.5
West South Central.....	60,946	43,968	22,742	15,947	139	6.4	6.1	4.3	4.0	7.7	5.0	5.0	5.1	3.2	2.7	2.3
Mountain.....	65,282	18,458	5,210	76	354	22.2	9.4	6.0	5.9	2.2	5.3	5.3	2.1	0.9	(3)	4.4
Pacific.....	35,323	20,736	12,808	9,681	170	7.4	7.0	6.3	6.8	5.3	2.9	2.9	2.4	1.8	1.7	1.8
The Territories.....				1,470											0.5	
New England:																
Maine.....	5,452	4,366	2,439	1,723	125	7.2	6.2	6.5	3.7	2.7	.4	.5	(3)	.6	.4	2.3
New Hampshire.....	441	392	1,046	1,098	112	1.0	.9	2.6	2.9	3.4	.3	.3	(3)	.2	.2	1.3
Vermont.....	3,178	2,958	3,654	3,781	107	8.8	8.5	12.3	11.0	11.4	.3	.3	(3)	.6	.7	3.0
Massachusetts.....	305	213	727	729	143	1.1	1.1	.2	.4	.5	(3)	(3)	(3)	.1	.1	1.0
Rhode Island.....	38	49	169	150	118	.1	.1	.4	.6	.6	(3)	(3)	(3)	.1	.2	1.9
Connecticut.....	355	331	742	1,016	107	.3	.3	.9	1.6	1.8	(3)	(3)	(3)	.1	.2	2.2
Middle Atlantic:																
New York.....	42,500	42,226	37,364	31,653	101	4.4	5.4	5.9	7.4	6.9	3.4	4.8	(3)	5.3	7.0	8.6
New Jersey.....	2,024	1,803	3,295	3,359	112	.7	.9	2.1	2.9	3.4	.2	.2	.2	.5	1.2	7.1
Pennsylvania.....	35,877	36,483	31,346	30,485	98	4.4	5.4	5.6	7.7	8.1	2.9	4.2	4.4	6.2	10.9	6.6
South Atlantic:																
Delaware.....	121	115	470	388	105	.6	.6	2.7	3.1	2.9	(3)	(3)	(3)	.1	.1	2.3
Maryland.....	1,309	945	2,046	2,569	139	1.0	.8	1.9	2.2	3.1	.1	.1	.1	.3	.4	3.0
Virginia.....	4,108	3,495	6,799	4,991	118	1.9	1.8	4.0	4.5	3.8	.3	.4	.9	1.2	1.8	1.5
West Virginia.....	2,774	2,032	2,351	2,255	137	2.1	2.0	3.8	3.5	4.6	.2	.2	.2	.4	.8	4.0
North Carolina.....	4,864	3,103	6,306	5,247	157	2.1	1.6	3.7	3.5	2.5	.4	.4	.4	.6	1.1	1.8
South Carolina.....	7,988	3,147	3,694	2,908	254	5.1	2.3	3.6	3.9	2.8	.7	.4	.4	.3	.9	3.3
Georgia.....	10,429	3,563	7,096	6,444	293	3.8	1.5	3.6	3.9	2.8	.8	.8	.4	1.0	1.1	6.3
Florida.....	868	413	503	3,357	210	1.1	.7	1.3	1.6	.5	.1	.1	(3)	.1	.2	5.1

East North Central:														
Ohio.....	64,308	40,021	28,534	28,140	23,327	161	13.0	9.2	7.5	8.3	8.3	5.2	4.6	4.0
Indiana.....	54,731	121,490	90,501	124,175	131,178	132	19.8	16.1	12.6	11.7	11.7	8.3	4.8	4.8
Illinois.....	145,962	122,926	90,551	102,338	44,762	119	24.7	24.3	22.0	30.3	16.6	11.9	14.1	12.8
Michigan.....	50,948	19,720	9,539	33,362	25,792	153	13.1	13.1	11.8	10.8	7.2	4.1	3.8	3.7
Wisconsin.....	79,382	85,338	53,498	41,640	18,420	93	32.8	39.7	29.6	28.4	16.3	6.5	9.8	7.2
West North Central:														
Minnesota.....	104,457	76,530	53,201	35,155	10,915	136	47.9	41.4	36.9	35.4	20.1	8.5	8.8	7.5
Iowa.....	175,081	116,923	114,678	70,569	21,730	150	78.8	52.4	57.1	40.6	16.4	14.2	13.4	16.3
Missouri.....	27,807	18,273	27,337	30,022	16,080	152	8.3	5.8	9.7	12.6	8.6	2.3	2.1	3.9
North Dakota.....	73,436	30,493	16,618	11,659	.....	241	111.1	77.0	63.8	39.4	.....	6.0	3.5	2.1
South Dakota.....	44,507	25,370	14,494	.....	.....	175	69.2	55.6	45.3	.....	.....	3.6	2.9	2.3
Nebraska.....	57,977	35,399	35,076	19,757	2,322	105	47.0	50.2	33.0	28.4	10.5	4.7	6.4	5.0
Kansas.....	44,409	23,015	33,241	24,084	7,375	193	25.2	15.0	23.1	20.6	13.3	3.6	2.6	4.7
East South Central:														
Kentucky.....	3,893	5,350	11,127	8,479	6,101	73	1.7	2.4	5.7	4.9	4.3	3.3	3.6	1.6
Tennessee.....	6,967	3,238	7,988	8,042	4,694	215	3.1	1.6	4.3	4.9	3.5	6.6	4.1	1.4
Alabama.....	7,455	3,002	4,873	4,694	720	248	3.3	1.6	3.0	3.4	7.7	3.7	3.7	8.0
Mississippi.....	3,243	1,785	2,293	3,320	571	182	1.7	1.1	1.7	2.8	6.6	3.8	2.3	3.6
West South Central:														
Louisiana.....	1,429	498	593	438	35	287	8.8	3.5	5.4	4.4	4.1	1.1	1.1	1.1
Texas.....	29,803	24,869	16,101	11,117	1,041	120	7.1	7.5	6.5	6.0	1.0	2.5	2.9	2.3
Oklahoma.....	23,653	6,437	.....	.....	.....	164	12.2	13.7	.....	.....	.....	1.9	1.6	1.6
Arkansas.....	6,061	4,222	6,048	3,992	732	144	3.7	3.0	5.1	4.3	1.3	3.5	3.8	7.7
Mountain:														
Montana.....	23,103	6,817	2,594	1,562	.....	339	55.1	24.1	15.0	19.3	.....	1.9	3.8	4.4
Wyoming.....	8,179	1,374	1,482	71	.....	593	50.2	12.6	6.8	1.9	.....	7.7	2.2	1.4
Colorado.....	11,587	4,497	2,772	1,359	(6)	238	13.1	7.3	6.1	4.8	(6)	9.9	3.5	4.2
New Mexico.....	1,987	344	330	289	.....	543	5.0	1.5	1.9	2.1	.....	(3)	(3)	(3)
Arizona.....	4,340	1,639	923	684	.....	521	1.3	1.3	4.0	4.0	.....	(3)	(3)	(3)
Utah.....	4,499	1,978	989	1,004	76	265	10.7	5.4	4.0	4.0	1.6	4.4	2.1	1.1
Nevada.....	15,409	3,521	.....	.....	.....	229	5.3	4.0	9.0	18.3	.....	(3)	(3)	(3)
Idaho.....	14,035	7,476	4,048	2,689	(6)	438	40.7	16.7	9.0	.....	.....	1.3	1.4	1.2
Washington.....	14,040	6,829	5,003	2,164	.....	188	10.4	10.6	10.0	14.3	.....	1.1	9.9	6.5
Oregon.....	7,248	5,243	1,931	5,003	2,081	175	18.5	16.3	19.6	21.6	18.7	1.2	9.9	8.7
California.....	.....	.....	.....	1,989	1,470	138	2.7	3.0	1.5	2.0	3.2	3.6	6.3	3.3
The Territories.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Domestic exports, including:														
oats:	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Quantity.....	48,291	16,090	7,289	3,725	752	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per cent of production.....	3.93	1.85	1.03	.64	.27	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Four-year average.
² From the decennial census returns.

³ Less than one-tenth of 1 per cent.
⁴ Less than one-tenth bushel.

⁵ Includes Indian Territory.
⁶ Included in "The Territories."

TABLE 9.—Oats: Geographic differences in prices and costs of production.¹

State and geographic division.	Price and cost of production, per bushel.		Average yield per acre, 1915.		Gross returns and costs of production, per acre.			Ratio of returns per acre to cost.		Measurement of relationships in percentages of the United States average as base (100 per cent.).			
	Cost of production, 1909. ²		Average farm price, 1911-1915.	Average returns per acre, 1911-1915. (Price X yield.)	Cost of production, 1909. ¹			P. ct.	ct.	Cost per bushel.		Yields per acre.	
	Exclud- ing land rental or in- terest.	Includ- ing land rental or in- terest.			Exclud- ing land rental or in- terest.	Includ- ing land rental or in- terest.	Com- mer- cial fertil- izer in cus- tom per acre.			Exclud- ing land rental or in- terest.	Includ- ing land rental or in- terest.	Gross returns per acre.	P. ct.
	Cents.	Cents.	Bush.	Doll.	Doll.	Doll.	Doll.	P. ct.	ct.	P. ct.	ct.	P. ct.	ct.
United States.....	39	22	34	12.48	1.42	7.13	10.91	0.40	175	100	100	100	100
New England.....	53	44	54	18.70	5.85	15.54	18.83	2.07	120	200	159	154	173
Middle Atlantic.....	47	36	47	14.81	4.20	11.02	14.49	1.74	134	121	164	119	133
South Atlantic.....	59	38	56	13.26	1.90	8.82	12.89	1.84	150	173	165	106	118
East North Central.....	39	21	34	13.35	1.70	7.26	11.55	.42	184	100	95	107	102
West North Central.....	36	21	32	10.33	.77	6.13	9.34	.08	169	95	100	83	86
East South Central.....	57	35	48	11.95	.66	7.38	10.17	.82	162	146	139	96	104
West South Central.....	50	29	40	12.05	.72	6.90	9.69	.32	175	132	118	97	89
Mountain.....	47	24	33	12.42	1.10	9.90	13.95	.14	199	121	109	131	153
Pacific.....	46	21	30	18.44	1.05	8.60	12.48	.12	214	95	88	148	114
New England:													
Maine.....	52	44	53	20.28	4.54	17.20	20.64	3.83	118	133	156	162	189
New Hampshire.....	55	42	47	20.35	5.25	15.49	17.30	1.12	131	141	138	163	159
Vermont.....	53	40	47	21.20	6.48	15.96	18.99	2.07	133	136	182	170	174
Massachusetts.....	53	46	56	18.55	6.00	15.99	19.66	2.00	116	209	165	149	180
Rhode Island.....	52	42	57	15.08	7.00	13.05	17.55	1.31	133	133	168	121	161
Connecticut.....	54	42	57	16.74	7.00	13.05	17.55	1.31	128	191	168	134	183
Middle Atlantic:													
New York.....	47	37	47	15.51	4.71	12.37	15.59	1.99	125	120	168	124	143
New Jersey.....	49	36	48	14.21	4.56	10.35	13.98	1.55	137	164	141	114	138
Pennsylvania.....	46	33	43	14.72	3.34	10.55	13.89	1.67	140	118	126	118	127
South Atlantic:													
Delaware.....	49	31	43	14.70	3.30	9.42	12.82	2.00	156	141	126	118	118
Maryland.....	49	32	78	14.21	3.12	9.36	22.57	1.92	132	145	229	91	207
Virginia.....	54	39	51	11.34	1.51	8.14	10.69	1.62	139	177	150	66	91
West Virginia.....	52	37	48	13.00	1.38	9.15	11.99	1.10	142	133	168	104	110
North Carolina.....	63	41	55	11.97	.99	7.73	10.37	1.39	155	162	186	108	95
South Carolina.....	69	47	62	14.49	1.35	9.79	12.97	2.80	148	214	182	116	137

State	County	1909	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402	2403	2404	2405	2406	2407	2408	2409	2410	2411	2412	2413	2414	2415	2416	2417	2418	2419	2420	2421	2422	2423	2424	2425	2426	2427	2428	2429	2430	2431	2432	2433	2434	2435	2436	2437	2438	2439	2440	2441	2442	2443	2444	2445	2446	2447	2448	2449	2450	2451	2452	2453	2454	2455	2456	2457	2458	2459	2460	2461	2462	2463	2464	2465	2466	2467	2468	2469	2470	2471	2472	2473	2474	2475	2476	2477	2478	2479	2480	2481	2482	2483	2484	2485	2486	2487	2488	2489	2490	2491	2492	2493	2494	2495	2496	2497	2498	2499	2500	2501	2502	2503	2504	2505	2506	2507	2508	2509	2510	2511	2512	2513	2514	2515	2516	2517	2518	2519	2520	2521	2522	2523	2524	2525	2526	2527	2528	2529	2530	2531	2532	2533	2534	2535	2536	2537	2538	2539	2540	2541	2542	2543	2544	2545	2546	2547	2548	2549	2550	2551	2552	2553	2554	2555	2556	2557	2558	2559	2560	2561	2562	2563	2564	2565	2566	2567	2568	2569	2570	2571	2572	2573	2574	2575	2576	2577	2578	2579	2580	2581	2582	2583	2584	2585	2586	2587	2588	2589	2590	2591	2592	2593	2594	2595	2596	2597	2598	2599	2600	2601	2602	2603	2604	2605	2606	2607	2608	2609	2610	2611	2612	2613	2614	2615	2616	2617	2618	2619	2620	2621	2622	2623	2624	2625	2626	2627	2628	2629	2630	2631	2632	2633	2634	2635	2636	2637	2638	2639	2640	2641	2642	2643	2644	2645	2646	2647	2648	2649	2650	2651	2652	2653	2654	2655	2656	2657	2658	2659	2660	2661	2662	2663	2664	2665	2666	2667	2668	2669	2670	2671	2672	2673	2674	2675	2676	2677	2678	2679	2680	2681	2682	2683	2684	2685	2686	2687	2688	2689	2690	2691	2692	2693	2694	2695	2696	2697	2698	2699	2700	2701	2702	2703	2704	2705	2706	2707	2708	2709	2710	2711	2712	2713	2714	2715	2716	2717	2718	2719	2720	2721	2722	2723	2724	2725	2726	2727	2728	2729	2730	2731	2732	2733	2734	2735	2736	2737	2738	2739	2740	2741	2742	2743	2744	2745	2746	2747	2748	2749	2750	2751	2752	2753	2754	2755	2756	2757	2758	2759	2760	2761	2762	2763	2764	2765	2766	2767	2768	2769	2770	2771	2772	2773	2774	2775	2776	2777	2778	2779	2780	2781	2782	2783	2784	2785	2786	2787	2788	2789	2790	2791	2792	2793	2794	2795	2796	2797	2798	2799	2800	2801	2802	2803	2804	2805	2806	2807	2808	2809	2810	2811	2812	2813	2814	2815	2816	2817	2818	2819	2820	2821	2822	2823	2824	2825	2826	2827	2828	2829	2830	2831	2832	2833	2834	2835	2836	2837	2838	2839	2840	2841	2842	2843	2844	2845	2846	2847	2848	2849	2850	2851	2852	2853	2854	2855	2856	2857	2858	2859	2860	2861	2862	2863	2864	2865	2866	2867	2868	2869	2870	2871	2872	2873	2874	2875	2876	2877	2878	2879	2880	2881	2882	2883	2884	2885	2886	2887	2888	2889	2890	2891	2892	2893	2894	2895	2896	2897	2898	2899	2900	2901	2902	2903	2904	2905	29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Such factors are assembled in Table 9, which gives an idea as to sectional differences in costs per bushel and per acre, also yields and returns. The table is divided into two parts; the first shows costs in absolute figures, the second affords a comparison through percentages based upon the average for the United States taken as 100 per cent. The varying advantage or disadvantage in prices, costs, and yields can be followed more easily in these percentages. Taking Iowa as an illustration, it will be observed that price per bushel is 90 per cent of the United States average, yields 109, and the two combined in returns per acre 98. But the cost per acre, excluding land rental or interest, is only 84, and the ratio of returns to cost is high—204 per cent.

APPENDIX.

The data which follow, form the bases of Maps 1, 2, and 3, and are explained on pages 2 and 6.

Counties have been used as the smallest effective unit of measurement, for the reason that the usual State prices are frequently averages for large expanses of territory with dissimilar physical and price conditions. The basic figures were compiled from returns of some 30,000 township reporters for each of the five years 1910-1914, as of December 1. Observations for this period and for a like date of each year were employed to distinguish normal geographic variations from temporary deviations; and to further conduce thereto the price averages have been rounded to a five-cent unit to overcome occasional minor differences due to such causes as local variations in grade.

As the figures are designed to show geographic variation in prices paid to oat producers, counties with little or no oat production have been omitted (those with less than 500 acres in oats, according to the 1909 census).

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914.

[Cents per bushel.]

ALABAMA:	ALABAMA—Continued.	ARKANSAS—Continued.	CALIFORNIA—Contd.
55-59 cents—	70-74 cents—Contd.	50-54 cents—Contd.	55-59 cents—Contd.
Jackson.	Butler.	Montgomery.	Lassen.
Lauderdale.	Chambers.	Newton.	Merced.
Limestone.	Chilton.	Prairie.	Modoc.
Madison.	Coffee.	Randolph.	Monterey.
60-64 cents—	Conecuh.	Scott.	Napa.
Colbert.	Coosa.	Searcy.	Plumas.
Cullman.	Covington.	Sebastian.	Sacramento.
Dekalb.	Crenshaw.	Sharp.	San Benito.
Franklin.	Dale.	Stone.	San Francisco.
Lawrence.	Elmore.	White.	San Joaquin.
Marshall.	Escambia.	55-59 cents—	San Luis Obispo.
Morgan.	Geneva.	Clark.	San Mateo.
Walker.	Henry.	Conway.	Santa Barbara.
Winston.	Houston.	Faulkner.	Santa Clara.
65-69 cents—	Lee.	Garland.	Santa Cruz.
Autauga.	Pike.	Hempstead.	Shasta.
Blount.	Randolph.	Hot Spring.	Siskiyou.
Calhoun.	Russell.	Howard.	Solano.
Cherokee.	Shelby.	Logan.	Stanislaus.
Choctaw.	Tallapoosa.	Perry.	Sutter.
Clarke.	ARIZONA:	Pike.	Tehama.
Clay.	50-54 cents—	Polk.	Trinity.
Cleburne.	Maricopa.	Pope.	Yolo.
Dallas.	60-64 cents—	Pulaski.	60-64 cents—
Etowah.	Apache.	Saline.	Fresno.
Fayette.	ARKANSAS:	Sevier.	Humboldt.
Greene.	45-49 cents:	Van Buren.	Lake.
Hale.	Benton.	Yell.	Los Angeles.
Jefferson.	Boone.	60-64 cents—	Madera.
Lamar.	Carroll.	Ashley.	Marin.
Lowndes.	Madison.	Bradley.	Mendocino.
Macon.	Washington.	Calhoun.	Orange.
Marengo.	50-54 cents—	Columbia.	Riverside.
Marion.	Arkansas.	Drew.	San Diego.
Monroe.	Baxter.	Lafayette.	Sonoma.
Montgomery.	Clay.	Little River.	Ventura.
Perry.	Cleburne.	Miller.	COLORADO:
Pickens.	Craighead.	Nevada.	40-44 cents—
Saint Clair.	Crawford.	Ouachita.	Larimer.
Sumter.	Franklin.	Union.	Logan.
Talladega.	Fulton.	55-59 cents—	Morgan.
Tuscaloosa.	Greene.	Alameda.	Phillips.
Wilcox.	Independence.	Amador.	Sedgwick.
70-74 cents—	Izard.	Colusa.	Washington.
Barbour.	Johnson.	Contra Costa.	Weld.
Bibb.	Lonoke.	Glenn.	45-49 cents.
Bullock.	Marion.		Adams.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

COLORADO—Continued. 45-49 cents—Contd.	GEORGIA—Continued. 65-69 cents—Contd.	GEORGIA—Continued. 70-74 cents—Contd.	ILLINOIS—Continued. 35-39 cents—Contd.
Arapahoe.	Floyd.	Morgan.	Champaign.
Archuleta.	Forsyth.	Muscogee.	Christian.
Bent.	Gordon.	Newton.	Clark.
Boulder.	Habersham.	Oconee.	Coles.
Chaffee.	Hall.	Oglethorpe.	Crawford.
Conejos.	Haralson.	Paulding.	Cumberland.
Costilla.	Milton.	Pierce.	Dekalb.
Crowley.	Pickens.	Pike.	Dewitt.
Custer.	Polk.	Pulaski.	Douglas.
Denver.	White.	Putnam.	Edgar.
Douglas.	70-74 cents.	Quitman.	Edwards.
Eagle.	Appling.	Randolph.	Ford.
Elbert.	Baker.	Richmond.	Fulton.
El Paso.	Baldwin.	Rockdale.	Grundy.
Garfield.	Ben Hill.	Schley.	Hancock.
Huerfano.	Berrien.	Screven.	Henderson.
Jefferson.	Bibb.	Spalding.	Henry.
Kit Carson.	Bleckley.	Stephens.	Iroquois.
La Plata.	Brooks.	Stewart.	Jasper.
Las Animas.	Bryan.	Sumter.	Jo Daviess.
Lincoln.	Bulloch.	Talbot.	Kankakee.
Moffat.	Burke.	Taliaferro.	Kendall.
Montezuma.	Butts.	Tattnall.	Knox.
Otero.	Calhoun.	Taylor.	La Salle.
Pitkin.	Campbell.	Telfair.	Lawrence.
Prowers.	Carroll.	Terrill.	Lee.
Pueblo.	Chatham.	Thomas.	Livingston.
Rio Blanco.	Chattahoochee.	Tift.	Logan.
Rio Grande.	Clarke.	Toombs.	McDonough.
Routt.	Clay.	Troup.	McLean.
Saguache.	Clayton.	Turner.	Macon.
Yuma.	Clinch.	Twiggs.	Marshall.
50-54 cents.	Cobb.	Upson.	Mason.
Delta.	Coffee.	Walton.	Menard.
Mesa.	Colquitt.	Ware.	Mercer.
Montrose.	Columbia.	Warren.	Morgan.
Ouray.	Coweta.	Washington.	Moultrie.
San Miguel.	Crawford.	Wayne.	Ogle.
CONNECTICUT:	Crisp.	Webster.	Peoria.
55-59 cents.	Decatur.	Wheeler.	Piatt.
Fairfield.	Dekalb.	Wilcox.	Putnam.
Hartford.	Dodge.	Wilkes.	Richland.
Litchfield.	Dooly.	Wilkinson.	Rock Island.
Middlesex.	Dougherty.	Worth.	Sangamon.
New London.	Douglas.	IDAHO:	Schuyler.
Tolland.	Early.	35-39 cents—	Scott.
Windham.	Effingham.	Bannock.	Shelby.
DELAWARE:	Elbert.	Bear Lake.	Stark.
45-49 cents.	Emanuel.	Bingham.	Stephenson.
New Castle.	Fayette.	Bonneville.	Tazewell.
50-54 cents.	Franklin.	Fremont.	Vermilion.
Kent.	Fulton.	40-44 cents—	Wabash.
Sussex.	Glasscock.	Blaine.	Warren.
FLORIDA:	Grady.	Boise.	Whiteside.
70-74 cents.	Greene.	Cassia.	Will.
Columbia.	Gwinnett.	Clearwater.	Winnebago.
Gadsden.	Hancock.	Custer.	Woodford.
Hamilton.	Harris.	Franklin.	40-44 cents—
Holmes.	Hart.	Gooding.	Adams.
Jackson.	Heard.	Idaho.	Bond.
Jefferson.	Henry.	Kootenai.	Calhoun.
Leon.	Houston.	Latah.	Clay.
Liberty.	Irwin.	Lemhi.	Cook.
Madison.	Jackson.	Lewis.	Dupage.
Suwanee.	Jasper.	Lincoln.	Effingham.
80-84 cents.	Jeff Davis.	Minidoka.	Fayette.
Alachua.	Jefferson.	Nez Perce.	Gallatin.
Bradford.	Jenkins.	Oneida.	Greene.
Levy.	Johnson.	Power.	Hamilton.
Marion.	Jones.	45-49 cents—	Hardin.
Sumter.	Laurens.	Ada.	Jefferson.
GEORGIA:	Lee.	Adams.	Jersey.
60-64 cents.	Liberty.	Canyon.	Johnson.
Catoosa.	Lincoln.	Elmore.	Kane.
Dade.	Lowndes.	Owyhee.	Lake.
Murray.	McDuffie.	Twin Falls.	McHenry.
Walker.	Macon.	Washington.	Macoupin.
Whitfield.	Madison.	ILLINOIS:	Marion.
65-69 cents.	Marion.	35-39 cents—	Montgomery.
Banks.	Meriwether.	Boone.	Pike.
Bartow.	Miller.	Brown.	Pope.
Chattooga.	Mitchell.	Bureau.	Saline.
Cherokee.	Monroe.	Carroll.	Wayne.
Dawson.	Montgomery.	Cass.	White.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

ILLINOIS—Continued.

45-49 cents—
Alexander.
Clinton.
Franklin.
Jackson.
Madison.
Massac.
Monroe.
Perry.
Pulaski.
Randolph.
Saint Clair.
Union.
Washington.
Williamson.

INDIANA:

35-39 cents—
Adams.
Allen.
Benton.
Blackford.
Boone.
Carroll.
Cass.
Clinton.
DeKalb.
Delaware.
Elkhart.
Fountain.
Fulton.
Grant.
Hamilton.
Hancock.
Hendricks.
Henry.
Howard.
Huntington.
Jasper.
Jay.
Kosciusko.
Lagrange.
Laporte.
Madison.
Marshall.
Miami.
Montgomery.
Newton.
Noble.
Parke.
Porter.
Pulaski.
Putnam.
Randolph.
Rush.
Saint Joseph.
Starke.
Steuben.
Tippecanoe.
Tipton.
Vermilion.
Wabash.
Warren.
Wayne.
Wells.
White.
Whitley.

40-44 cents—
Bartholomew.
Brown.
Clark.
Clay.
Crawford.
Daviess.
Dearborn.
Decatur.
Dubois.
Fayette.
Floyd.
Franklin.
Gibson.
Greene.
Harrison.
Jackson.
Jefferson.
Jennings.
Johnson.

INDIANA—Continued.

40-44 cents—Contd.
Knox.
Lake.
Lawrence.
Marion.
Martin.
Monroe.
Morgan.
Ohio.
Orange.
Owen.
Perry.
Posey.
Ripley.
Scott.
Shelby.
Spencer.
Sullivan.
Switzerland.
Union.
Vanderburg.
Vigo.
Warrick.
Washington.

IOWA:

35-39 cents—
Adair.
Adams.
Allamakee.
Appanoose.
Audubon.
Benton.
Blackhawk.
Boone.
Bremer.
Buchanan.
Buena Vista.
Butler.
Calhoun.
Carroll.
Cass.
Cedar.
Cerro Gordo.
Cherokee.
Chickasaw.
Clarke.
Clay.
Clayton.
Clinton.
Crawford.
Dallas.
Davis.
Decatur.
Delaware.
Des Moines.
Dickinson.
Emmet.
Fayette.
Floyd.
Franklin.
Fremont.
Greene.
Grundy.
Guthrie.
Hamilton.
Hancock.
Hardin.
Harrison.
Henry.
Howard.
Humboldt.
Ida.
Iowa.
Jasper.
Jefferson.
Johnson.
Jones.
Keokuk.
Kossuth.
Lee.
Linn.
Louisa.
Lucas.
Lyon.
Madison.

IOWA—Continued.

35-39 cents—Contd.
Mahaska.
Marion.
Marshall.
Mills.
Mitchell.
Monona.
Monroe.
Montgomery.
Muscatine.
O'Brien.
Osceola.
Page.
Palo Alto.
Plymouth.
Pocahontas.
Polk.
Pottawattamie.
Poweshiek.
Ringgold.
Sac.
Scott.
Shelby.
Sioux.
Story.
Tama.
Taylor.
Union.
Van Buren.
Wapello.
Warren.
Washington.
Wayne.
Webster.
Winnebago.
Winneshek.
Woodbury.
Worth.
Wright.

40-44 cents—
Dubuque.
Jackson.

KANSAS:

35-39 cents—
Brown.
Doniphan.
Marshall.
Nemaha.
40-44 cents—
Allen.
Anderson.
Atchison.
Bourbon.
Butler.
Chase.
Chautauqua.
Cherokee.
Clay.
Cloud.
Coffey.
Cowley.
Crawford.
Dickinson.
Douglas.
Elk.
Franklin.
Geary.
Greenwood.
Harper.
Harvey.
Jackson.
Jefferson.
Jewell.
Johnson.
Kingman.
Labette.
Leavenworth.
Linn.
Lyon.
McPherson.
Marion.
Miami.
Montgomery.
Morris.
Neosho.
Osage.

KANSAS—Continued.

40-44 cents—Contd.
Pottawattamie.
Reno.
Republic.
Rice.
Riley.
Sedgwick.
Shawnee.
Sumner.
Wabauwsee.
Washington.
Wilson.
Woodson.
Wyandotte.
45-49 cents—
Barber.
Barton.
Cheyenne.
Clark.
Decatur.
Edwards.
Ellis.
Ellsworth.
Ford.
Gove.
Graham.
Hodgeman.
Lane.
Lincoln.
Logan.
Meade.
Mitchell.
Ness.
Norton.
Osborne.
Ottawa.
Pawnee.
Phillips.
Pratt.
Rawlins.
Rooks.
Rush.
Russell.
Saline.
Scott.
Sheridan.
Sherman.
Smith.
Stafford.
Trego.

KENTUCKY:

45-49 cents—
Anderson.
Boone.
Boyd.
Boyle.
Bracken.
Breckinridge.
Bullitt.
Campbell.
Carroll.
Carter.
Davies.
Elliott.
Fleming.
Franklin.
Fulton.
Gallatin.
Grant.
Graves.
Greenup.
Hancock.
Hardin.
Henry.
Hickman.
Jefferson.
Johnson.
Kenton.
Larue.
Lawrence.
Lewis.
Marion.
Mason.
Meade.
Mercer.
Nelson.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

KENTUCKY—Continued.

45-49 cents—Contd.

Ohio.
Oldham.
Owen.
Pendleton.
Robertson.
Rowan.
Shelby.
Spencer.
Trimble.
Washington.

50-54 cents—

Adair.
Allen.
Barren.
Bath.
Bourbon.
Butler.
Casey.
Christian.
Clay.
Edmonson.
Fayette.
Garrard.
Grayson.
Greene.
Harrison.
Hart.
Jackson.
Jessamine.
Knox.
Laurel.
Lincoln.
Logan.
Madison.
Menelee.
Metcalfe.
Monroe.
Montgomery.
Morgan.
Nicholas.
Owsley.
Pulaski.
Rockcastle.
Scott.
Simpson.
Taylor.
Todd.
Warren.
Wolfe.
Woodford.

55-59 cents—

McCreary.
Wayne.
Whitley.

LOUISIANA:

60-64 cents—

Bienville.
Bossier.
Claiborne.
Jackson.
Lincoln.
Ouachita.
Sabine.
Union.
Webster.
Winn.

MAINE:

50-54 cents—

Androscoggin.
Cumberland.
Kennebec.
Knox.
Lincoln.
Oxford.
Sagadahoc.
Waldo.
York.

55-59 cents—

Aroostook.
Franklin.
Hancock.
Penobscot.
Piscataquis.
Somerset.
Washington.

MARYLAND:

45-49 cents—

Anne Arundel.
Baltimore.
Caroline.
Cecil.
Frederick.
Harford.
Howard.
Kent.
Montgomery.
Prince Georges.

50-54 cents—

Allegany.
Garrett.
Somerset.
Washington.
Worcester.

MASSACHUSETTS:

55-59 cents—

Berkshire.

MICHIGAN:

35-39 cents—

Branch.
Cass.
Hillsdale.
Lenawee.
St. Joseph.

40-44 cents.

Alcona.
Allegan.
Arenac.
Barry.
Bay.
Berrien.
Calhoun.
Clare.
Clinton.
Eaton.
Genesee.
Gladwin.
Gratiot.
Huron.
Ingham.
Ionia.
Iosco.
Isabella.
Jackson.
Kalamazoo.
Kent.
Lapeer.
Livingston.
Macomb.
Mecosta.
Midland.
Missaukee.
Monroe.
Montcalm.
Muskegon.
Newaygo.
Oakland.
Oceana.
Ogemaw.
Osceola.
Oscoda.
Ottawa.
Saginaw.
St. Clair.
Sanilac.
Shiawassee.
Tuscola.
Van Buren.
Washtenaw.
Wayne.
Wexford.

45-49 cents.

Alpena.
Antrim.
Baraga.
Benzie.
Charlevoix.
Cheboygan.
Chippewa.
Crawford.
Delta.
Dickinson.
Emmet.

MICHIGAN—Continued.

45-49 cents—Contd.

Grand Traverse.
Houghton.
Kalkaska.
Keweenaw.
Lake.
Leelanau.
Luce.
Mackinac.
Manistee.
Marquette.
Mason.
Menominee.
Montmorency.
Ontonagon.
Otsego.
Presque Isle.
Roscommon.

MINNESOTA:

30-34 cents—

Bigstone.
Chippewa.
Clay.
Grant.
Kandiyohi.
Lac Qui Parle.
Lincoln.
Lyon.
Norman.
Renville.
Stevens.
Swift.
Traverse.
Wilkin.
Yellow Medicine.

35-39 cents.

Anoka.
Becker.
Benton.
Blue Earth.
Brown.
Carver.
Chisago.
Cottonwood.
Dakota.
Dodge.
Douglas.
Faribault.
Fillmore.
Freeborn.
Goodhue.
Hennepin.
Houston.
Isanti.
Jackson.
Kittson.
Lesueur.
McLeod.
Mahnomon.
Marshall.
Martin.
Meeker.
Millelacs.
Morrison.
Mower.
Murray.
Nicollet.
Nobles.
Olmsted.
Ottertail.
Pennington.
Pipestone.
Polk.
Pope.
Ramsey.
Red Lake.
Redwood.
Rice.
Rock.
Scott.
Sherburne.
Sibley.
Stearns.
Steele.
Todd.
Wabasha.
Wadena.

MINNESOTA—Contd.

35-39 cents—Contd.

Waseca.
Washington.
Watsonwan.
Winona.
Wright.
40-44 cents—
Aitkin.
Beltrami.
Carlton.
Cass.
Clearwater.
Crow Wing.
Hubbard.
Kanabec.
Pine.
Roseau.
St. Louis.

MISSISSIPPI:

60-64 cents—

Amité.
Attala.
Calhoun.
Chickasaw.
Choctaw.
Clay.
Copiah.
Hinds.
Itawamba.
Lawrence.
Lincoln.
Madison.
Marion.
Monroe.
Pike.
Pontotoc.
Rankin.
Union.
Webster.
Wilkinson.
Yalobusha.

65-69 cents—

Clarke.
Covington.
Forrest.
Jasper.
Jefferson Davis.
Jones.
Kemper.
Lauderdale.
Leake.
Lowndes.
Neshoba.
Newton.
Noxubee.
Oktibbeha.
Perry.
Scott.
Simpson.
Smith.
Wayne.
Winston.

MISSOURI:

35-39 cents—

Adair.
Atchison.
Caldwell.
Clark.
Davies.
Gentry.
Grundy.
Harrison.
Holt.
Knox.
Lewis.
Linn.
Livingston.
Macon.
Mercer.
Nodaway.
Putnam.
Schuyler.
Scotland.
Shelby.
Sullivan.
Worth.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

MISSOURI—Continued.

40-44 cents—
 Andrew.
 Audrain.
 Barry.
 Barton.
 Bates.
 Benton.
 Boone.
 Buchanan.
 Callaway.
 Carroll.
 Cass.
 Cedar.
 Chariton.
 Clay.
 Clinton.
 Cooper.
 Dade.
 Dekalb.
 Greene.
 Henry.
 Hickory.
 Howard.
 Jackson.
 Jasper.
 Johnson.
 Lafayette.
 Lawrence.
 Lincoln.
 McDonald.
 Marion.
 Moniteau.
 Monroe.
 Montgomery.
 Morgan.
 Pettis.
 Pike.
 Platte.
 Polk.
 Ralls.
 Randolph.
 Ray.
 St. Charles.
 St. Clair.
 Saline.
 Stone.
 Vernon.
 Warren.
 45-49 cents—
 Bollinger.
 Butler.
 Camden.
 Cape Girardeau.
 Christian.
 Cole.
 Crawford.
 Dallas.
 Douglas.
 Franklin.
 Gasconade.
 Howell.
 Jefferson.
 Laclede.
 Maries.
 Miller.
 Oregon.
 Osage.
 Ozark.
 Perry.
 Ripley.
 St. Genevieve.
 St. Louis.
 Scott.
 Shannon.
 Stoddard.
 Taney.
 Webster.
 50-54 cents—
 Carter.
 Dent.
 Iron.
 Madison.
 Phelps.
 Pulaski.
 Reynolds.
 St. Francois.

MISSOURI—Continued.

50-54 cents—Contd.
 Texas.
 Washington.
 Wayne.
 Wright.
 MONTANA:
 35-39 cents—
 Beaverhead.
 Blaine.
 Cascade.
 Chouteau.
 Dawson.
 Flathead.
 Granite.
 Hill.
 Lewis & Clark.
 Lincoln.
 Madison.
 Missoula.
 Powell.
 Ravalli.
 Sanders.
 Sheridan.
 Teton.
 Valley.
 40-44 cents—
 Big Horn.
 Broadwater.
 Carbon.
 Custer.
 Fergus.
 Gallatin.
 Jefferson.
 Meagher.
 Musselshell.
 Park.
 Rosebud.
 Stillwater.
 Sweet Grass.
 Yellowstone.
 NEBRASKA:
 35-39 cents—
 Antelope.
 Blaine.
 Boone.
 Boyd.
 Brown.
 Burt.
 Butler.
 Cass.
 Cedar.
 Clay.
 Colfax.
 Cuming.
 Custer.
 Dakota.
 Dixon.
 Dodge.
 Douglas.
 Fillmore.
 Gage.
 Garfield.
 Greeley.
 Hamilton.
 Holt.
 Jefferson.
 Johnson.
 Keyapaha.
 Knox.
 Lancaster.
 Loup.
 Madison.
 Merrick.
 Nance.
 Nemaha.
 Nuckolls.
 Otoe.
 Pawnee.
 Pierce.
 Platte.
 Polk.
 Richardson.
 Rock.
 Saline.
 Sarpy.
 Saunders.

NEBRASKA—Continued.

35-39 cents—Contd.
 Seward.
 Stanton.
 Tiayyer.
 Thurston.
 Valley.
 Washington.
 Wayne.
 Wheeler.
 York.
 40-44 cents—
 Adams.
 Banner.
 Box Butte.
 Buffalo.
 Chase.
 Cherry.
 Cheyenne.
 Dawes.
 Dawson.
 Deuel.
 Dundy.
 Franklin.
 Frontier.
 Furnas.
 Garden.
 Gosper.
 Hall.
 Harlan.
 Hayes.
 Hitchcock.
 Howard.
 Kearney.
 Keith.
 Kimball.
 Lincoln.
 Logan.
 Morrill.
 Perkins.
 Phelps.
 Redwillow.
 Scotts Bluff.
 Sheridan.
 Sherman.
 Sioux.
 Webster.
 NEW JERSEY:
 45-49 cents—
 Burlington.
 Camden.
 Gloucester.
 Hunterdon.
 Mercer.
 Middlesex.
 Morris.
 Salem.
 Somerset.
 Warren.
 50-54 cents—
 Sussex.
 NEW HAMPSHIRE:
 50-54 cents—
 Coos.
 Grafton.
 55-59 cents—
 Cheshire.
 Sullivan.
 NEW MEXICO:
 50-54 cents—
 Chaves.
 Colfax.
 Mora.
 Otero.
 Rio Arriba.
 San Juan.
 San Miguel.
 Taos.
 NEW YORK:
 45-49 cents—
 Allegany.
 Broome.
 Cattaraugus.
 Cayuga.
 Chautauqua.
 Chemung.
 Chenango.

NEW YORK—Contd.

45-49 cents—Contd.
 Cortland.
 Erie.
 Genesee.
 Jefferson.
 Lewis.
 Livingston.
 Madison.
 Monroe.
 Niagara.
 Onondaga.
 Ontario.
 Orleans.
 Oswego.
 Schuyler.
 Seneca.
 Steuben.
 Tioga.
 Tompkins.
 Wayne.
 Wyoming.
 Yates.
 50-54 cents—
 Albany.
 Clinton.
 Columbia.
 Delaware.
 Dutchess.
 Essex.
 Franklin.
 Fulton.
 Greene.
 Herkimer.
 Montgomery.
 Oneida.
 Orange.
 Otsego.
 Rensselaer.
 St. Lawrence.
 Saratoga.
 Schenectady.
 Schoharie.
 Sullivan.
 Ulster.
 Warren.
 Washington.
 NEVADA:
 55-59 cents—
 Elko.
 White Pine.
 NORTH CAROLINA:
 55-59 cents—
 Alleghany.
 Ashe.
 Avery.
 Buncombe.
 Haywood.
 Mitchell.
 Watauga.
 Yancey.
 Madison.
 60-64 cents—
 Alexander.
 Burke.
 Caldwell.
 Catawba.
 Davidson.
 Davie.
 Iredell.
 Rowan.
 Surry.
 Wilkes.
 Yadkin.
 65-69 cents—
 Alamance.
 Anson.
 Cabarrus.
 Caswell.
 Chatham.
 Cleveland.
 Columbus.
 Cumberland.
 Durham.
 Edgecombe.
 Forsyth.
 Franklin.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

NORTH CAROLINA—Con.
65-69 cents—Contd.

Gaston.
Granville.
Greene.
Guilford.
Halifax.
Harnett.
Hoke.
Johnston.
Lee.
Lenoir.
Lincoln.
Mecklenburg.
Montgomery.
Moore.
Nash.
Orange.
Person.
Pitt.
Randolph.
Richmond.
Robeson.
Rockingham.
Rutherford.
Scotland.
Stanly.
Stokes.
Union.
Vance.
Wake.
Warren.
Wayne.
Wilson.

NORTH DAKOTA:
30-34 cents—

Barnes.
Benson.
Bottineau.
Burke.
Cass.
Cavalier.
Divide.
Eddy.
Foster.
Grand Forks.
Griggs.
McHenry.
Nelson.
Pembina.
Pierce.
Ramsey.
Ransom.
Renville.
Richland.
Rquette.
Sargent.
Sheridan.
Steele.
Stutsman.
Towner.
Traill.
Walsh.
Ward.
Wells.

35-39 cents—

Adams.
Billings.
Bowman.
Burleigh.
Dickey.
Dunn.
Emmons.
Golden Valley.
Hettinger.
Kidder.
La Moure.
Logan.
McIntosh.
McKenzie.
McLean.
Mercer.
Mountrail.
Morton.
Oliver.
Stark.
Williams.

OHIO:

35-39 cents—

Allen.
Auglaize.
Champaign.
Crawford.
Defiance.
Fulton.
Hancock.
Hardin.
Henry.
Logan.
Madison.
Marion.
Mercer.
Paulding.
Putnam.
Seneca.
Shelby.
Union.
Van Wert.
Williams.
Wood.
Wyandot.

40-44 cents—

Adams.
Ashland.
Brown.
Butler.
Clark.
Clermont.
Clinton.
Coshocton.
Darke.
Delaware.
Erie.
Fairfield.
Fayette.
Franklin.
Greene.
Hamilton.
Highland.
Hocking.
Holmes.
Huron.
Knox.
Licking.
Lorain.
Lucas.
Medina.
Miami.
Montgomery.
Morrow.
Ottawa.
Pickaway.
Pike.
Preble.
Richland.
Ross.
Sandusky.
Scioto.
Stark.
Tuscarawas.
Warren.
Wayne.

45-49 cents—

Ashtabula.
Athens.
Belmont.
Carroll.
Cumbiana.
Cuyahoga.
Gallia.
Geauga.
Guernsey.
Harrison.
Jackson.
Jefferson.
Lake.
Lawrence.
Mahoning.
Meigs.
Monroe.
Morgan.
Muskingum.
Noble.
Portage.
Summit.

OHIO—Continued.

45-49 cents—Contd.

Trumbull.
Vinton.
Washington.

OKLAHOMA:

40-44 cents—

Adair.
Alfalfa.
Blaine.
Caddo.
Canadian.
Cherokee.
Cleveland.
Comanche.
Cotton.
Craig.
Custer.
Delaware.
Dewey.
Ellis.
Garfield.
Garvin.
Grady.
Grant.
Harper.
Jackson.
Jefferson.
Kay.
Kingfisher.
Kiowa.
Logan.
McClain.
Major.
Mayes.
Murray.
Noble.
Nowata.
Oklahoma.
Osage.
Ottawa.
Pawnee.
Payne.
Pottawatomie.
Rogers.
Stephens.
Tillman.
Tulsa.
Wagoner.
Washington.
Washita.
Woods.
Woodward.

45-49 cents—

Beaver.
Beckham.
Bryan.
Carter.
Cimarron.
Coal.
Greer.
Harmon.
Haskell.
Hughes.
Johnston.
Lincoln.
McIntosh.
Marshall.
Muskogee.
Okfuskee.
Okmulgee.
Pontotoc.
Roger Mills.
Seminole.
Texas.

50-54 cents—

Atoka.
Choctaw.
Le Flore.
Pittsburg.
Sequoyah.

OREGON:

40-44 cents—

Umatilla.
Union.
Wallowa.
45-49 cents—
Benton.

OREGON—Continued.

45-49 cents—Contd.

Clackamas.
Columbia.
Lane.
Linn.
Marion.
Multnomah.
Polk.
Sherman.
Wasco.
Washington.
Yamhill.

50-54 cents—

Baker.
Crook.
Douglas.
Grant.
Harney.
Klamath.
Malheur.

PENNSYLVANIA:

45-49 cents—

Adams.
Allegheny.
Armstrong.
Beaver.
Bedford.
Berks.
Blair.
Bradford.
Bucks.
Butler.
Center.
Chester.
Clarion.
Clinton.
Columbia.
Crawford.
Cumberland.
Dauphin.
Delaware.
Erie.
Fayette.
Franklin.
Fulton.
Greene.
Huntingdon.
Jefferson.
Juniata.
Lancaster.
Lawrence.
Lebanon.
Lehigh.
Lycoming.
McKean.
Mercer.
Mifflin.
Monroe.
Montgomery.
Montour.
Northampton.
Northumberland.
Perry.
Philadelphia.
Potter.
Snyder.
Somerset.
Sullivan.
Susquehanna.
Tioga.
Union.
Venango.
Warren.
Washington.
Westmoreland.
Wyoming.
York.

50-54 cents—

Cambria.
Cameron.
Carbon.
Clearfield.
Elk.
Forest.
Indiana.
Lackawanna.
Luzerne.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

PENNSYLVANIA—Contd. 50-54 cents—Contd. Pike. Schuylkill. Wayne.	SOUTH DAKOTA—Con. 35-39 cents—Contd. Minnehaha. Spink. Tripp. Turner. Union.	TENNESSEE—Contd. 50-54 cents—Contd. Sumner. Trousdale. Unicoi. Union. Van Buren. Warren.	TEXAS—Continued. 50-54 cents—Contd. Hays. Hill. Hunt. Johnson. Kaufman. Kerr. McLennan. Medina. Parker. Rockwall. Tarrant. Travis. Williamson. Wise.
SOUTH CAROLINA: 70-74 cents— Abbeville. Aiken. Anderson. Bamberg. Barnwell. Beaufort. Berkeley. Calhoun. Charleston. Cherokee. Chester. Chesterfield. Clarendon. Colleton. Darlington. Dillon. Dorchester. Edgefield. Fairfield. Florence. Georgetown. Greenville. Greenwood. Hampton. Horry. Jasper. Kershaw. Lan-aster. Laurens. Lee. Lexington. Marion. Marlboro. Newberry. Oconee. Orangeburg. Pickens. Richland. Saluda. Spartanburg. Sumter. Union. Williamsburg. York.	40-44 cents— Campbell. Edmunds. Faulk. Harding. Hughes. Hyde. Lyman. Perkins. Potter. Sully. Walworth. 45-49 cents— Butte. Custer. Fall River. Lawrence. Meade. Pennington. Stanley. TENNESSEE: 45-49 cents— Davidson. Hickman. Lewis. Maury. Rutherford. Smith. Williamson. Wilson. 50-54 cents— Bedford. Blount. Cannon. Carroll. Carter. Cheatham. Claiborne. Clay. Cocke. Coffee. Crockett. Decatur. Dekalb. Dickson. Dyer. Franklin. Gibson. Giles. Grainger. Greene. Grundy. Hamblen. Hancock. Hawkins. Haywood. Henderson. Henry. Humphreys. Jackson. Jefferson. Johnson. Knox. Lauderdale. Lawrence. Lincoln. Macon. Madison. Marshall. Monroe. Montgomery. Moore. Perry. Putnam. Robertson. Sevier. Sullivan.	55-59 cents— Anderson. Bradley. Campbell. Chester. Fayette. Fentress. Hamilton. Hardeman. Hardin. James. Loudon. McMinn. McNairy. Marion. Meigs. Overton. Pickett. Polk. Rhea. Roane. Scott. Shelby. Tipton. TEXAS: 45-49 cents— Archer. Armstrong. Baylor. Blanco. Bosque. Briscoe. Burnet. Carson. Clay. Collingsworth. Cooke. Coryell. Deaf Smith. Floyd. Foard. Gillespie. Gray. Grayson. Hale. Hamilton. Hansford. Hardeman. Haskell. Hemphill. Hutchinson. Kendall. Knox. Lampasas. Montague. Ochiltree. Potter. Randall. Sherman. Swisher. Taylor. Wichita. Wilbarger. Young. 50-54 cents— Bandera. Bell. Bexar. Collin. Comal. Dallas. Denton. Ellis. Fannin.	55-59 cents— Delta. Falls. Henderson. Hopkins. Lamar. Limestone. Milam. Navarro. Rains. Red River. Van Zandt. Wood. 60-64 cents— Anderson. Bowie. Cass. Cherokee. Nacogdoches. Rusk. Shelby. Smith. UTAH: 45-49 cents— Boxelder. Cache. Carbon. Davis. Emery. Juab. Morgan. Rich. Salt Lake. Sanpete. Sevier. Summit. Tooele. Uinta. Utah. Wasatch. Wayne. Weber. 50-54 cents— Beaver. Garfield. Iron. Millard. Piute. San Juan. VERMONT: 50-54 cents— Addison. Bennington. Caledonia. Chittenden. Essex. Franklin. Grand Isle. Lamoille. Orange. Orleans. Rutland. Washington. Windsor. 55-59 cents— Windham. VIRGINIA: 50-54 cents— Albermarle. Alexandria. Augusta.

AVERAGE FARM PRICES OF OATS, BY COUNTIES, 1910-1914—Continued.

VIRGINIA—Continued.

50-54 cents—Contd.
 Botetourt.
 Caroline.
 Clarke.
 Culpeper.
 Essex.
 Fairfax.
 Fauquier.
 Floyd.
 Frederick.
 Greene.
 King George.
 Lancaster.
 Lee.
 Loudoun.
 Madison.
 Montgomery.
 Northumberland.
 Orange.
 Page.
 Prince William.
 Pulaski.
 Rappahannock.
 Richmond.
 Roanoke.
 Rockbridge.
 Rockingham.
 Scott.
 Shenandoah.
 Smyth.
 Spotsylvania.
 Stafford.
 Warren.
 Washington.
 Westmoreland.
 Wythe.

55-59 cents—

Amelia.
 Amherst.
 Appomattox.
 Bedford.
 Bland.
 Buckingham.
 Campbell.
 Carroll.
 Charles City.
 Chesterfield.
 Fluvanna.
 Franklin.
 Giles.
 Gloucester.
 Grayson.
 Hanover.
 Henrico.
 James City.
 King and Queen.
 King William.
 Louisa.
 Mathews.
 Middlesex.
 Nelson.
 New Kent.
 Patrick.
 Tazewell.
 Warwick.
 Wise.
 York.

60-64 cents—

Buchanan.

VIRGINIA—Continued.

60-64 cents—Contd.
 Cumberland.
 Dickenson.
 Dinwiddie.
 Goochland.
 Nottaway.
 Powhatan.
 Prince Edward.
 Prince George.
 Russell.
 65-69 cents—
 Brunswick.
 Charlotte.
 Halifax.
 Henry.
 Lunenburg.
 Mecklenburg.
 Pittsylvania.

WASHINGTON:

40-44 cents—
 Adams.
 Columbia.
 Ferry.
 Franklin.
 Lincoln.
 Spokane.
 Stevens.
 Walla Walla.
 Whitman.
 45-49 cents—
 Chelan.
 Clarke.
 Cowitz.
 Douglas.
 Grant.
 King.
 Kittitas.
 Klickitat.
 Lewis.
 Okanogan.
 Pend Oreille.
 Pierce.
 Skagit.
 Snohomish.
 Thurston.
 Whatcom.
 Yakima.

WEST VIRGINIA:

45-49 cents—
 Brooke.
 Cabell.
 Hancock.
 Jackson.
 Marshall.
 Mason.
 Ohio.
 Pleasants.
 Tyler.
 Wetzel.
 Wood.
 50-54 cents—
 Barbour.
 Berkeley.
 Doddridge.
 Hampshire.
 Hardy.
 Harrison.
 Jefferson.
 Kanawha.

WEST VIRGINIA—Con.

50-54 cents—Contd.
 Lincoln.
 Marion.
 Mineral.
 Monongalia.
 Morgan.
 Preston.
 Putnam.
 Ritchie.
 Roane.
 Taylor.
 Wayne.
 Wirt.
 55-59 cents—
 Braxton.
 Calhoun.
 Clay.
 Fayette.
 Gilmer.
 Grant.
 Greenbrier.
 Lewis.
 McDowell.
 Mercer.
 Monroe.
 Nicholas.
 Pendleton.
 Pocahontas.
 Raleigh.
 Randolph.
 Summers.
 Tucker.
 Upshur.
 Webster.
 Wyoming.

WISCONSIN:

35-39 cents—
 Buffalo.
 Chippewa.
 Dunn.
 Eau Claire.
 Jackson.
 Juneau.
 La Crosse.
 Monroe.
 Pepin.
 Pierce.
 Polk.
 St. Croix.
 Trempealeau.
 Vernon.
 40-44 cents—
 Adams.
 Barron.
 Brown.
 Burnett.
 Calumet.
 Clark.
 Columbia.
 Crawford.
 Dane.
 Dodge.
 Door.
 Fond du Lac.
 Grant.
 Green.
 Green Lake.
 Iowa.
 Jefferson.

WISCONSIN—Contd.

40-44 cents—Contd.
 Kenosha.
 Kewaunee.
 Lafayette.
 Manitowoc.
 Marathon.
 Marquette.
 Milwaukee.
 Oconto.
 Outagamie.
 Ozaukee.
 Portage.
 Racine.
 Richland.
 Rock.
 Rusk.
 Sauk.
 Sawyer.
 Shawano.
 Sheboygan.
 Taylor.
 Walworth.
 Washburn.
 Washington.
 Waukesha.
 Waupaca.
 Waushara.
 Winnebago.
 Wood.
 45-49 cents—
 Ashland.
 Bayfield.
 Douglas.
 Florence.
 Forest.
 Iron.
 Langlade.
 Lincoln.
 Marinette.
 Oneida.
 Price.
 Vilas.
 WYOMING:
 40-44 cents—
 Gosben.
 Laramie.
 Lincoln.
 Platte.
 45-49 cents—
 Albany.
 Bighorn.
 Campbell.
 Converse.
 Crook.
 Hot Springs.
 Johnson.
 Niobrara.
 Park.
 Sheridan.
 Uinta.
 Washakie.
 Weston.
 50-54 cents—
 Carbon.
 Fremont.
 Natrona.
 Sweetwater.

